Final Report

ASSESSMENT OF MERCURY IN WATER AND SEDIMENTS OF SANTA CLARA VALLEY STREAMS AND RESERVOIRS

Submitted by

Santa Clara Valley Nonpoint Source
Pollution Control Program

July 1, 1992

Prepared by

Woodward-Clyde Consultants
500 12th Street, Suite 100
Oakland, CA 94607-4014

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PROPERTY OF SANTA CLARA VALLEY
WATER DISTRICT
5750 Almaden Expressway
San Jose, California 95118

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1.0
ASSESSMENT OF MERCURY IN WATER AND SEDIMENT OF SANTA CLARA VALLEY STREAMS AND RESERVOIRS

1.1 INTRODUCTION

The San Francisco Bay Region of the California Regional Water Quality Control Board (RWQCB) is concerned about the potential threat to beneficial uses of the water resources in lower South Bay due to mercury concentrations. As a result, the RWQCB has required the Santa Clara Valley Nonpoint Source (SCVNPS) Pollution Control Program to conduct a Source Evaluation Program to evaluate existing data within its watershed to identify sources of mercury to lakes and streams which contribute to the Bay. A copy of the request letter is attached in Appendix A. At the RWQCB's request, the emphasis of this source identification was placed on identifying the potential contribution of mercury derived from inactive mines in the Santa Clara Valley. This technical report is submitted to fulfill this requirement pursuant to Section 13267 of the California Water Code.

1.2 OBJECTIVES

The main objective of this report is to identify sources of mercury to streams and reservoirs contributing to the Bay within Santa Clara County. To accomplish this objective, the following tasks were performed:

- Compile existing data on water, sediment, and fish tissue mercury concentrations in Santa Clara County watersheds.

- Identify and locate historical mercury mining locations within each watershed and/or sub-watershed (SWS).

- Conduct a comparative evaluation of the existing sediment and tissue data within each reservoir to determine if significant differences exist between reservoirs.

- Conduct a comparative evaluation of existing sediment and tissue data downstream of each reservoir to determine if a concentration gradient to the Bay is present.

- Identify watersheds with elevated mercury concentrations and likely historical and/or current sources in each watershed that may contribute mercury.

- Provide recommended control measures for identified sources.

Results of the evaluation are presented in the following chapters.

2.0
STUDY AREA DESCRIPTION

Presented below is a description of the study area. Included is a description of 11 watersheds, and locations of seven major reservoirs and associated streams. Also included are descriptions and ownership information of 19 former mercury mining sites within the study area and their locations within the watersheds.

2.1 WATERSHEDS

The study area of interest is the portion of Santa Clara County that drains into the Lower South Bay (Figure 1). The area is approximately 630 square miles and consists of the relatively flat Santa Clara Valley bordered on the west by the Santa Cruz Mountains and on the east by the Diablo Range. The area has been divided into 11 watersheds: Coyote Creek watershed (352 square miles) on the east side of the valley; the Guadalupe River watershed (170 square miles) which drains the south central portion of the valley; and a series of relatively small, more urbanized watersheds (San Tomas Aquinas Creek, Saratoga Creek, Calabazas Creek, Sunnyvale East Channel, Sunnyvale West Channel, Stevens Creek, Permanente Creek, Adobe-Matadero-Barron Creeks, and San Francisquito Creek) that drain the west side of the valley.

In the upland areas of three of the watersheds there are a total of seven reservoirs operated by the SCVWD. Anderson and Coyote reservoirs are located in the Coyote watershed while Calero, Almaden, Guadalupe, and Lexington reservoirs are located in the Guadalupe watershed. On the west side of the valley is Stevens Creek Reservoir in the Stevens Creek watershed.

2.2 MERCURY MINING SITE LOCATIONS AND DESCRIPTIONS

The main occurrence of mercury in the study area is as cinnabar (mercuric sulfide), generally confined to contacts between the Franciscan assemblage and ultrabasic intrusive rocks. The Franciscan assemblage is composed of graywacke, siltstone, mafic volcanic rocks, chert, and limestone of lower Jurassic to lower Tertiary age (163-97 million years ago (my)). The

Franciscan assemblage is folded and faulted within the areas that contained economic quantities of mercury (quicksilver). The general trend of outcrops is northwest. Ultramafic intrusive rocks are comprised largely of serpentine. Outcrops of serpentine nearly parallel those of Franciscan formation.

The host rock for cinnabar is a silica-carbonate rock, which is derived from hydrothermal alteration of serpentine along the outer surface. In the New Almaden Mine area, the largest producing area, production that came from the Ore grade rock was principally extracted from the hydrothermally altered serpentine shell of silica-carbonate utilizing underground mining techniques. Access to the workings provided by vertical shafts and horizontal adits or tunnels. A less frequent occurrence or ore grade mercury was found in near surface fault zones and placers formed from the disassociation of silica-carbonate host rock from the fault zone.

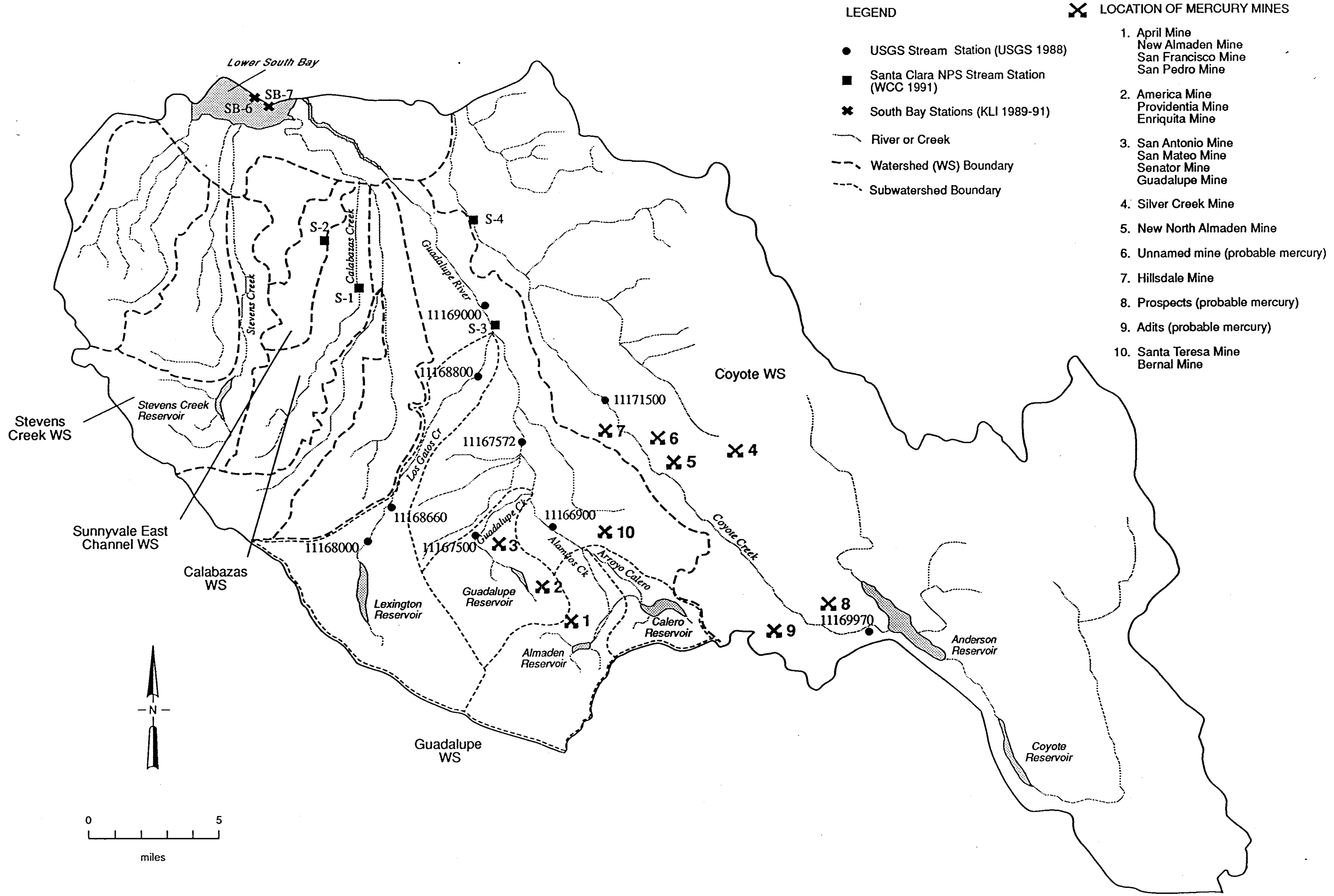
Table 1 presents a description of known historic mercury mining sites in Santa Clara Valley. Included is the type of mining operation (underground vs. surface), amount of mercury produced, years of operation, and discharge point. Ownership, as reported in referenced documents, is included.

Mines in the New Almaden area included: Guadalupe, Senator, San Mateo, San Antonio, Enriquita, San Francisco, Providencia, America, April and New Almaden. These mines were all underground operations. Approximately 10 shafts and 4 tunnel portals as well as reduction works and sorting areas (New Almaden Hacienda) are located in the New Almaden mining area. At least one tunnel portal, the main tunnel portal, contained a large dump area (China dump). Open pit mining methods were utilized in the mine hill area during the later stages of operation during the 1940's.

The Bernal prospect and the Santa Teresa mine to the northeast of the New Almaden area were underground operations. The Bernal prospect failed to find an ore body and the Santa Teresa yielded a small production in 1903.

The Hillsdale, Silver Creek, and New North Almaden mines are located to the northeast of the Bernal/Santa Teresa workings in the Coyote watershed. All three mines were small producers. The Hillsdale Mine yielded 163 flasks and the Silver Creek Mine yielded 367 flasks. Small production was obtained from the New North Almaden Mine in 1930. The Silver Creek Mine was both an open-pit operation and underground operation with early production from ore-bearing, silica-carbonate placers contained in landslides and creek beds. The Hillsdale Mine, and probably the New North Almaden Mine, were underground operations.

Due to significantly higher production, use of reduction facilities, tunnels and shafts, the New Almaden area probably represents the largest potential source area for mercury. The Silver Creek Mine could also be a significant source of mercury due to its geologic occurrence; mercury contained in placer form.



MINING SITE REFERENCES:
1 - 4, 7: from California Water Resources Control Board Basin Planning Study, Principal Areas of Mine Pollution. Prepared by the California Division of Mines and Geology, June 1972.
5, 6: from Geology of the San Jose-Mount Hamilton Area, California, Division of Mines Bulletin 157, 1951.
8 - 10: from USGS Map of the San Jose East Quadrangle, 7.5-minute series (Topographic), 1961.

Figure 1. LOCATIONS OF MERCURY MINES AND SEDIMENT SAMPLING STATIONS USED IN STREAM GRADIENT ANALYSIS

Table 1. Description of Historical Mining Operations in Santa Clara County

Name of Mining Operation	Name of Owner or Operator	Location	Production History	Point of Discharge	Type of Mining Operation	References *
Hillsdale Mine San Juan Bautista Chapman, Chaboya	Not Specified	37°17.37' 121°51.38'	Active 1861-74 1892-1907 1940's-inactive Prod: 163 flasks	Canoas Creek	Underground	CDMG Bull. 157, p. 62-63
Silver Creek	Not Specified	37°16.03' 121°44.90'	Active 1940's Inactive Prod: 367 flasks	Silver Creek	Surface and Underground	CDMG Bull. 157, p.60-62.
April Mine	New Idria Chemical and Mining Co.	37°10.72' 121°50.63'	Active 1971?	Los Captaincillos Creek	Underground	USBM Respondent File, 1971 USBM Territorial List, 1971
New Almaden Cristobal	San Jose Mining Co. 5333 Garwood Dr San Jose, CA 95118 R. & E. Sexton of Phila. PA, in 1945 (1)	37°10.83' 121°50.63'	Active 1971? Prod: 1,050,000 flasks by end of 1945 (1)	Los Captaincillos Creek	Underground (1)	USBM Respondent File, 1971 USBM Territorial List, 1971
San Francisco Mine	New Idria Chemical and Mining Co.	37°10.49' 121°50.89'	Intermittant operation 1864-1950 Active 1970-71? Prod:100,000 flasks	Almaden Reservoir	Surface and Underground	USGS Prof. Pap. 360, p. 146-150, 1964 USBM Respondent File, 1971
San Pedro Open Pit	New Idria Chemical and Mining Co.	37°10.65' 121°51.01'	Intermittant operation 1850-1893 Active 1971?	Guadalupe Reservoir	Primarily surface some underground	USGS Prof. Pap. 360, p. 149-150, 1964 USBM Respondent File, 1971

3.2 DATA PRESENTATION

Data are presented in box-plot format. Box-plots display the distribution of a data set in terms of percentiles. Figure 2 contains an example box-plot. The edges of the box are formed by the 25th and 75th percentiles. The line across the middle of this box is at the median (50th percentile). The lower and upper lines extending from the box end at the minimum and maximum values within the range defined by 1.5 times the interquartile range (distance between 25th and 75th percentile) ± the 25th or 75th percentile value. Values which lie outside the interquartile range ± the 25th or 75th percentile value are plotted separately (Figure 2).

3.3 RESERVOIR DATA

Data on mercury concentrations in reservoir sediments and fish tissues were evaluated and are presented for the seven major upland reservoirs in Santa Clara County. Data from all years were grouped together to maximize the number of sampling points for comparative analysis. The data for each reservoir are presented in box-plot format.

3.3.1 Sediment Data

Sediment mercury concentrations in the seven reservoirs in Santa Clara County are presented in box-plot and tabular format in Figure 3 and Table 2. Data are presented as dry weight on two different scales to enable examination of all reservoirs together as well as those with low concentrations.

The data indicate that mean sediment mercury concentrations in Almaden Reservoir are substantially higher and encompass a much broader range than mean concentrations in all other reservoirs. Of the other six reservoirs, Guadalupe and Calero are somewhat elevated compared to the remaining four reservoirs.

Only sediment data from Almaden Reservoir exceeded the Toxic Threshold Limit Criteria (TTLC) for hazardous waste of 20 ppm. However, sediment data were reported on a dry-weight basis while the TTLC criteria are based on wet-weight concentrations. Therefore, actual exceedances of TTLC may be less, as dry-weight concentrations may be as much as

2 to 3 times higher than wet weight. The State of California has not developed sediment criteria for fresh water systems to protect the aquatic environment.

3.3.2 Fish Tissue Data

Mercury concentrations in fish collected from the seven reservoirs of Santa Clara County are presented in box-plot and tabular formats in Figure 4 and Table 3. Only tissue (flesh or fillet) concentrations were used to generate the box plots. No distinction was made between different fish species or age/sizes to maximize the number of samples.

In general, fish tissue data for the seven reservoirs are more similar to each other than sediment data. Of the seven reservoirs, some fish tissue samples from Almaden, Calero, and Guadalupe contained mercury in excess of the FDA-recommended criteria for edible fish of 1 ppm. In contrast to the sediment data, fish tissue levels in Almaden Reservoir are generally below the FDA criteria while those in Calero and Guadalupe generally exceed the criteria (based on most recent data reported by DHS).

3.4 STREAM/BAY DATA

Sampling station locations for the stream and bay sediment data are presented in Figure 5. Stream sediment and fish tissue data are presented for each watershed. Data from Guadalupe Watershed were divided into four subwatershed areas reflecting the four reservoir areas. To determine if a gradient in mercury concentrations exists as the streams progress to the Bay, data for each stream station that were monitored multiple times (USGS and SCVNPS data for sediment and DHS data for tissues) are plotted along the stream flow path. In the sediment analysis, stream sediment concentrations are also compared to the concentrations reported in South San Francisco Bay sediments.

3.4.1 Sediment Data

3.4.1.1 Watershed Analysis

Sediment data for each watershed or subwatershed are presented in box-plot and tabular format in Figure 6 and Tables 5 and 6. For the subwatershed box plots, only stations located in one specific subwatershed were used. Data from stations below the junction of two or more subwatershed areas (i.e., USGS station 11167572 and SCVNPS station S-3) were not included.

Guadalupe Watershed

Stream sediment mercury data within the New Almaden County Park was collected by Dames & Moore and reported as wet weight of sediment. As no sediment moisture data were reported, this data could not be converted to dry weight and was used in the analysis as wet weight. The wet weight data would serve to underestimate the relative concentration as compared to data expressed as dry weight. Extensive analysis of site variably was conducted via replicate sampling and analysis of each stream. For the present data analysis only the mean mercury concentration of each site were used. For each site, highly variable mercury concentrations were reported with coefficients of variability (100 * STD DEV/MEAN) generally near 100.

Sediment mercury in samples from the Almaden subwatershed contained the highest mean mercury concentrations with many of the highest samples found in intermittent streams on or near inactive mining sites located away from the drainage area for Almaden Reservoir. Similarly, sediment mercury in the Guadalupe subwatershed was elevated compared to the other watersheds, with the highest levels occurring near inactive mining sites in the small creeks tributary to either the reservoir or Guadalupe Creek below the reservoir. Limited data (one data point) from Calero subwatershed make meaningful comparisons difficult.

Stream sediment mercury data reported for intermittent streams within the New Almaden County Park exceeded the Toxic Threshold Criteria (TTLC) for hazardous waste at six sites. Additionally five other sediment samples, four from Alamitos Creek (station 11166900 three samples and station NA-24 one sample) and one from Guadalupe Creek (station 11167500) exceeded the criteria. However, data for these five samples were reported on a dry weight basis while the TTLC criteria are based on wet-weight concentrations. Therefore, actual exceedances of TTLC criteria may be less, as dry-weight concentrations may be significantly higher than wet-weight.

Other Watersheds

Mercury concentrations in Coyote watershed were somewhat elevated relative to Calabazas and Lexington. The highest sediment mercury concentrations in Coyote watershed were all reported in one study conducted in 1978 (WCC, 1980). Sediment mercury in Lexington, Calabazas, and Sunnyvale East watershed was significantly lower than Almaden and Guadalupe watersheds.

3.4.1.2 Gradient Analysis

Stream sediment data for stations located below Guadalupe, Anderson/Coyote, and Lexington reservoirs are presented in Figures 7, 8, and 9. Station locations are presented in Figure 1. Only USGS and SCVNPS data are included as they were collected over multiple sampling events.

Downstream of the Guadalupe Reservoir mean sediment mercury concentrations are elevated relative to the South San Francisco Bay. Concentrations directly below Guadalupe Reservoir are lower than those occurring after the confluence of Almaden and Calero subwatershed (Station 11167572), indicating significant additional inputs from the Almaden and Calero subwatershed (Figure 7). Mean concentrations are significantly lower in the three Los Gatos Creek stations as compared to the Guadalupe River stations (Figure 8), indicating little mercury input from Lexington subwatershed is occurring.

At all stations downstream of Coyote Reservoir, mean sediment mercury concentrations are similar or lower to those reported for the South Bay and lower than all stations in the Guadalupe watershed (Figure 9). No gradient analysis is presented for Calabazas or Sunnyvale East watersheds due to a lack of multiple stations. However, mean concentrations in the downstream station at both watersheds are lower than other downstream locations and less than concentrations reported for South Bay sediment.

3.4.2 Fish Tissue Data

3.4.2.1 Watershed Analysis

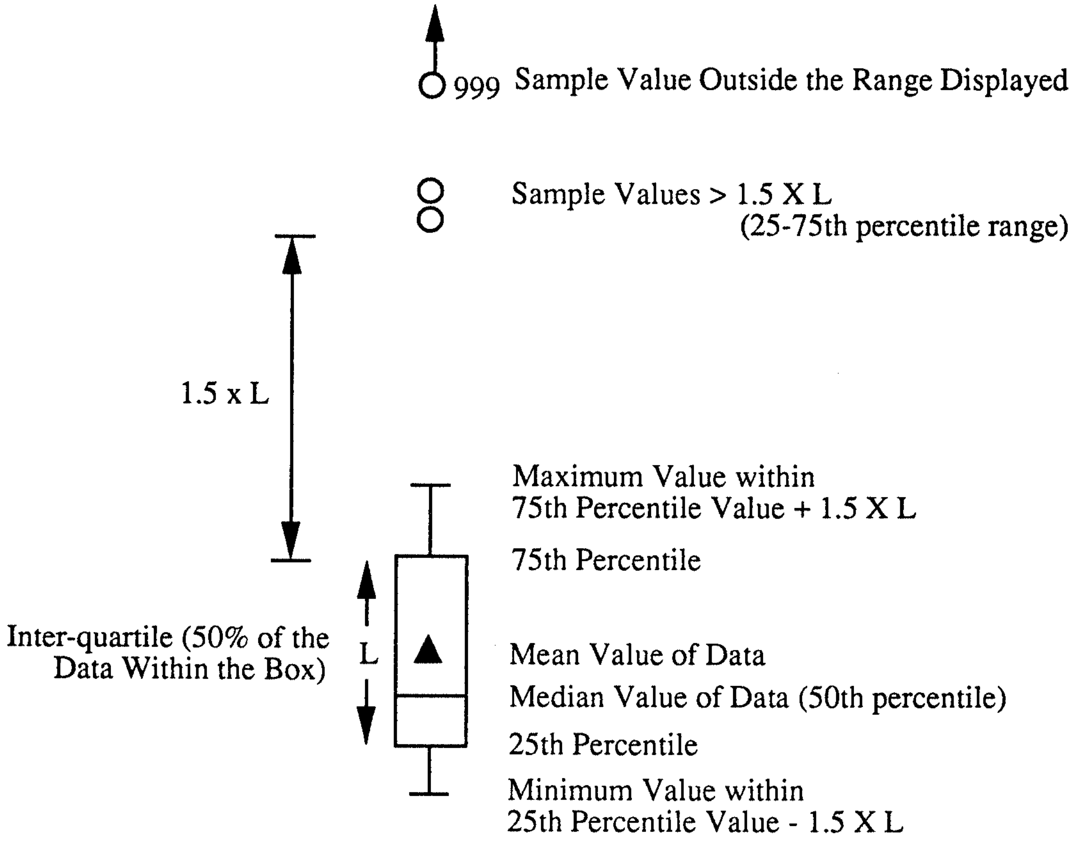
Fish tissue sampling point locations are presented in Figure 10. Data are presented for the major streams in each watershed and subwatershed in Tables 3 and 4 and Figure 11. For the Guadalupe watershed, a distinction was made between the sampling locations upstream of Almaden reservoir, two streams directly below Guadalupe and Almaden reservoir (Guadalupe Creek and Alamitos Creek), and the urbanized reaches of the Guadalupe River.

With the exception of the area close to inactive mining sites, fish tissue concentrations of mercury in Santa Clara County streams are generally below the FDA-recommended criteria of 1 ppm. In the Guadalupe and Alamitos creeks (Guadalupe and Almaden subwatershed) mean mercury concentrations were near or higher than the criteria. Fish collected from streams above the Almaden reservoir contained lower concentrations of mercury than those below the reservoir. Additionally, in the urbanized areas of Guadalupe River mean concentrations were elevated relative to other watersheds. These observations are consistent with the sediment data analysis presented above.

3.4.2.2 Gradient Analysis

Gradients in fish tissue mercury concentrations in the Guadalupe and Almaden subwatershed areas are presented in Figures 12 and 13. In general, fish tissue concentrations in stations located directly below the reservoirs are elevated relative to other locations and generally decrease with increasing distance from the areas of former mining activity. For the Almaden subwatershed tissue concentrations below the reservoir was elevated relative to those within the reservoir, indicating additional mercury inputs below the reservoir may be occurring.

Figure 2. Box Plot Legend


999 Sample Value Outside the Range Displayed
Sample Values > 1.5 X L (25-75th percentile range)
1.5 x L
Maximum Value within 75th Percentile Value + 1.5 X L
75th Percentile
Inter-quartile (50% of the Data Within the Box)
L
Mean Value of Data
Median Value of Data (50th percentile)
25th Percentile
Minimum Value within 25th Percentile Value - 1.5 X L

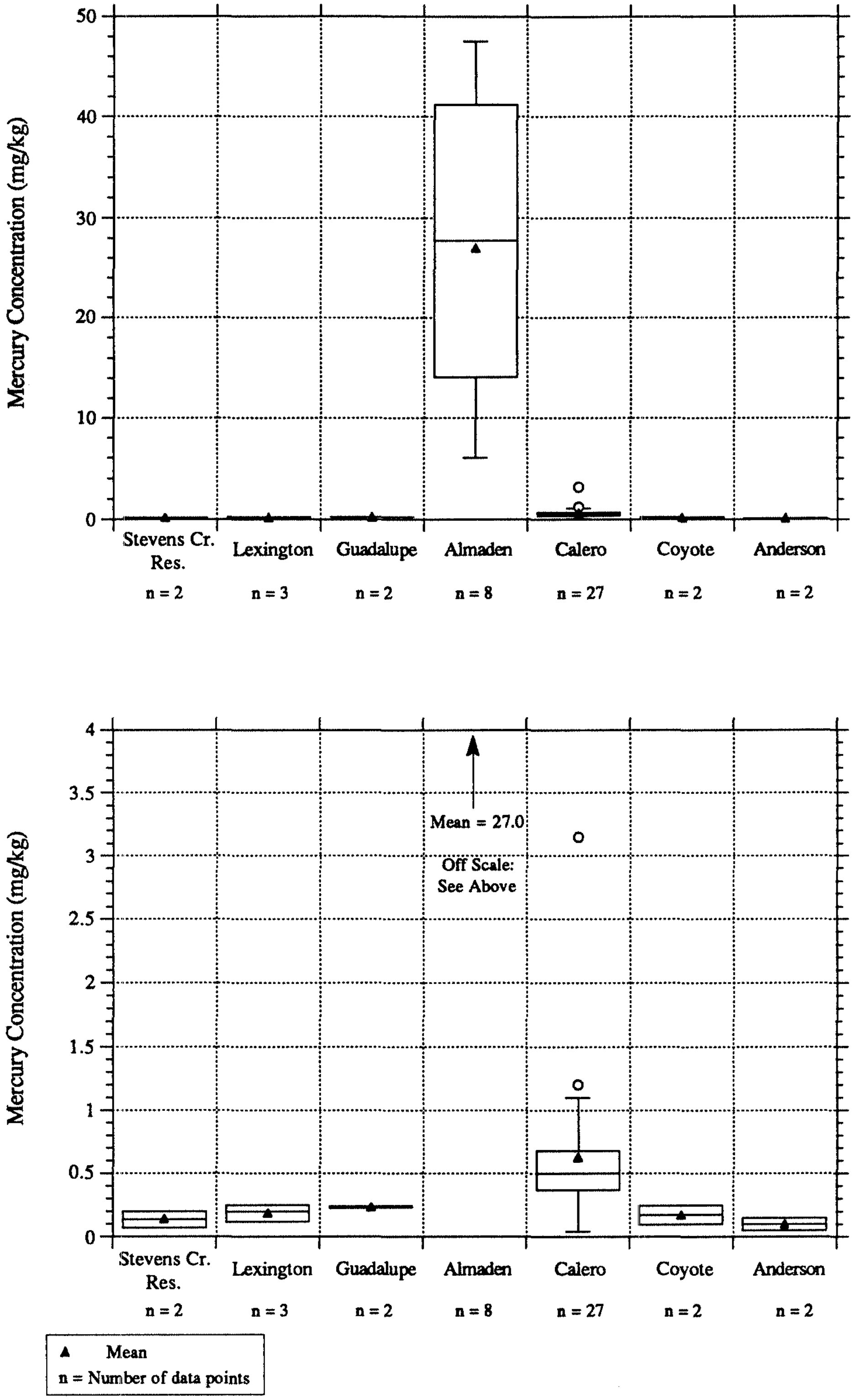


Figure 3. Sediment Mercury Data for Santa Clara Valley Reservoirs at Two Different Scales

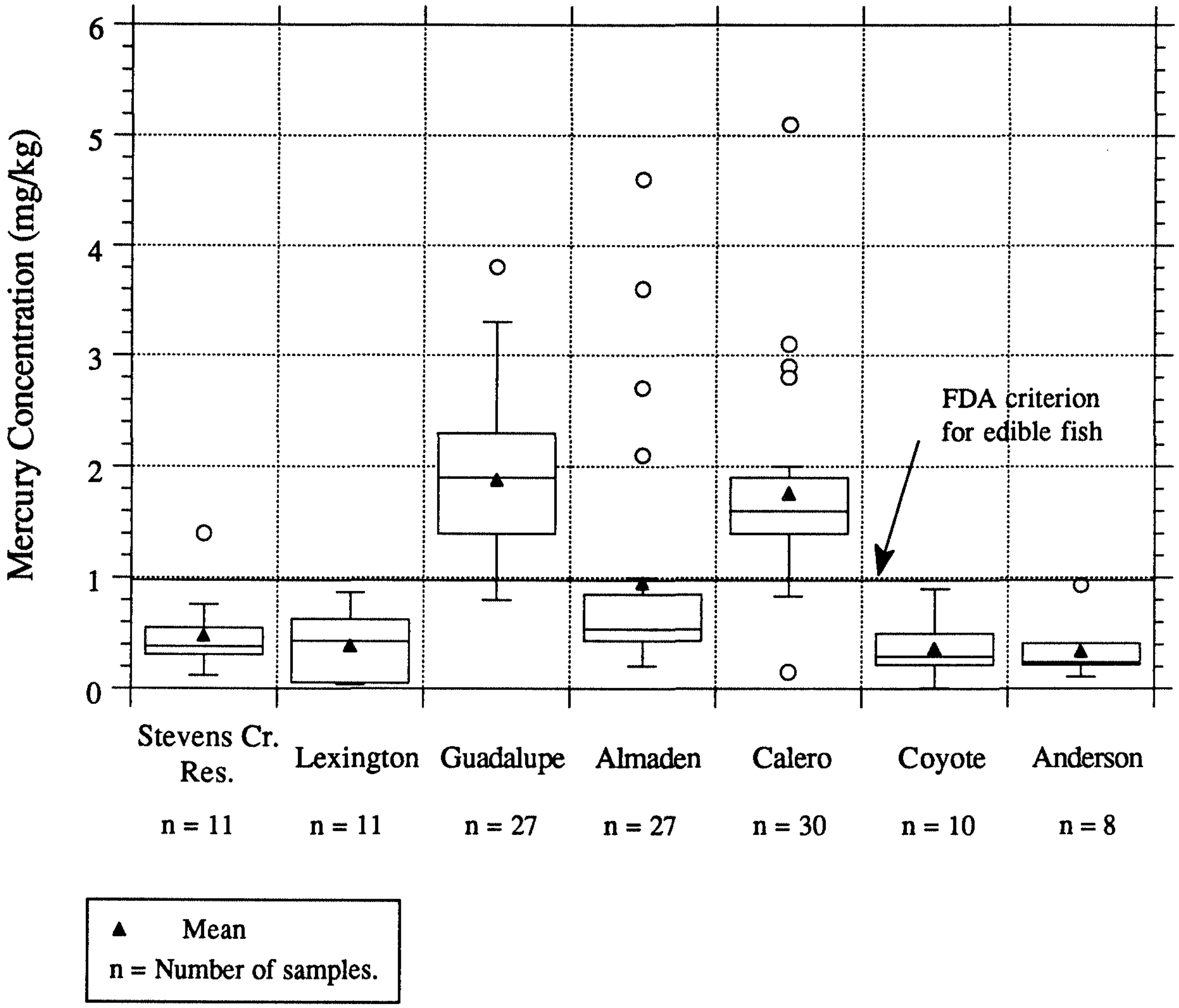


Figure 4. Fish Tissue Mercury Data for Santa Clara Valley Reservoirs

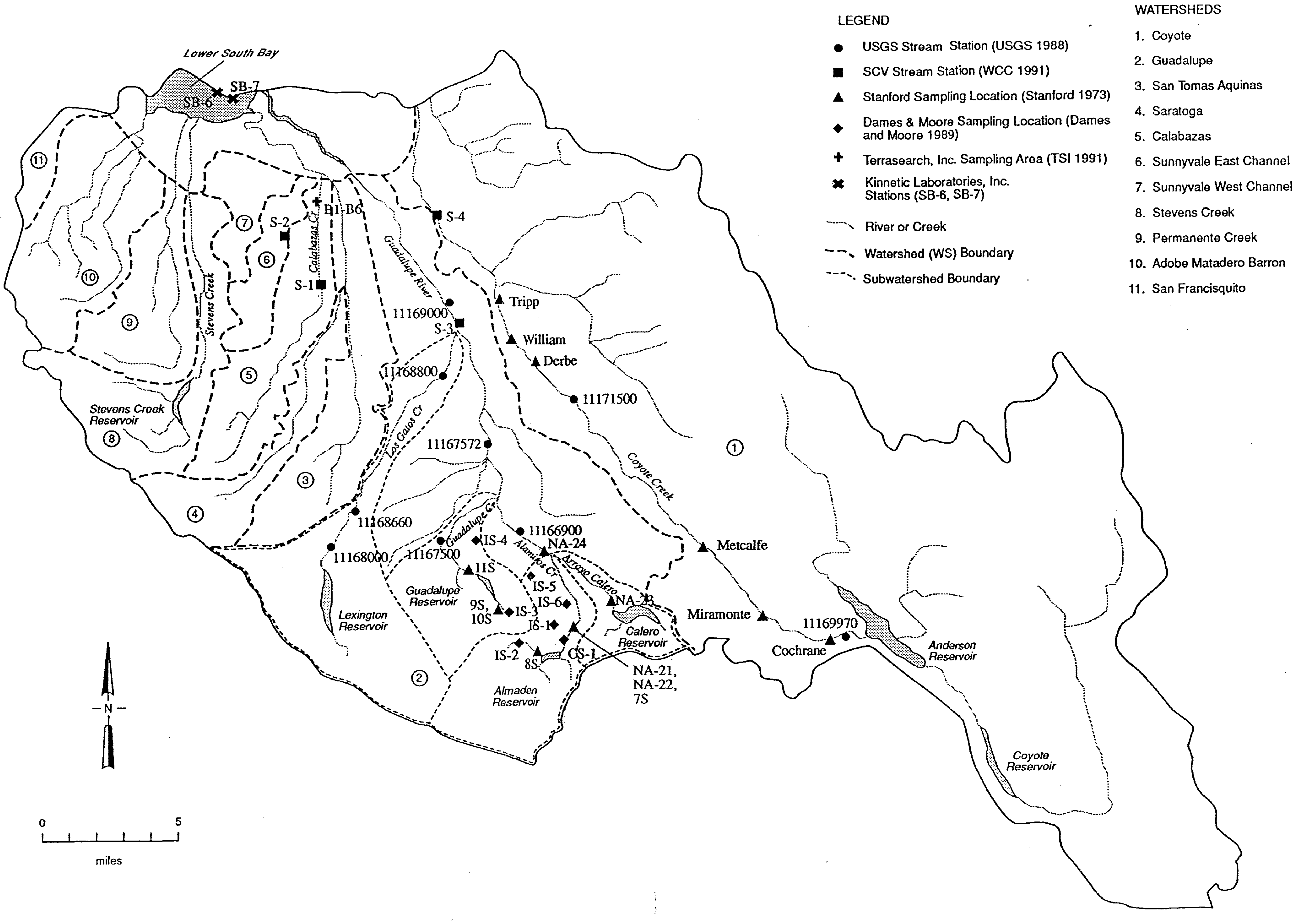


Figure 5. STREAM AND BAY SEDIMENT SAMPLING LOCATIONS USED IN WATERSHED ANALYSIS

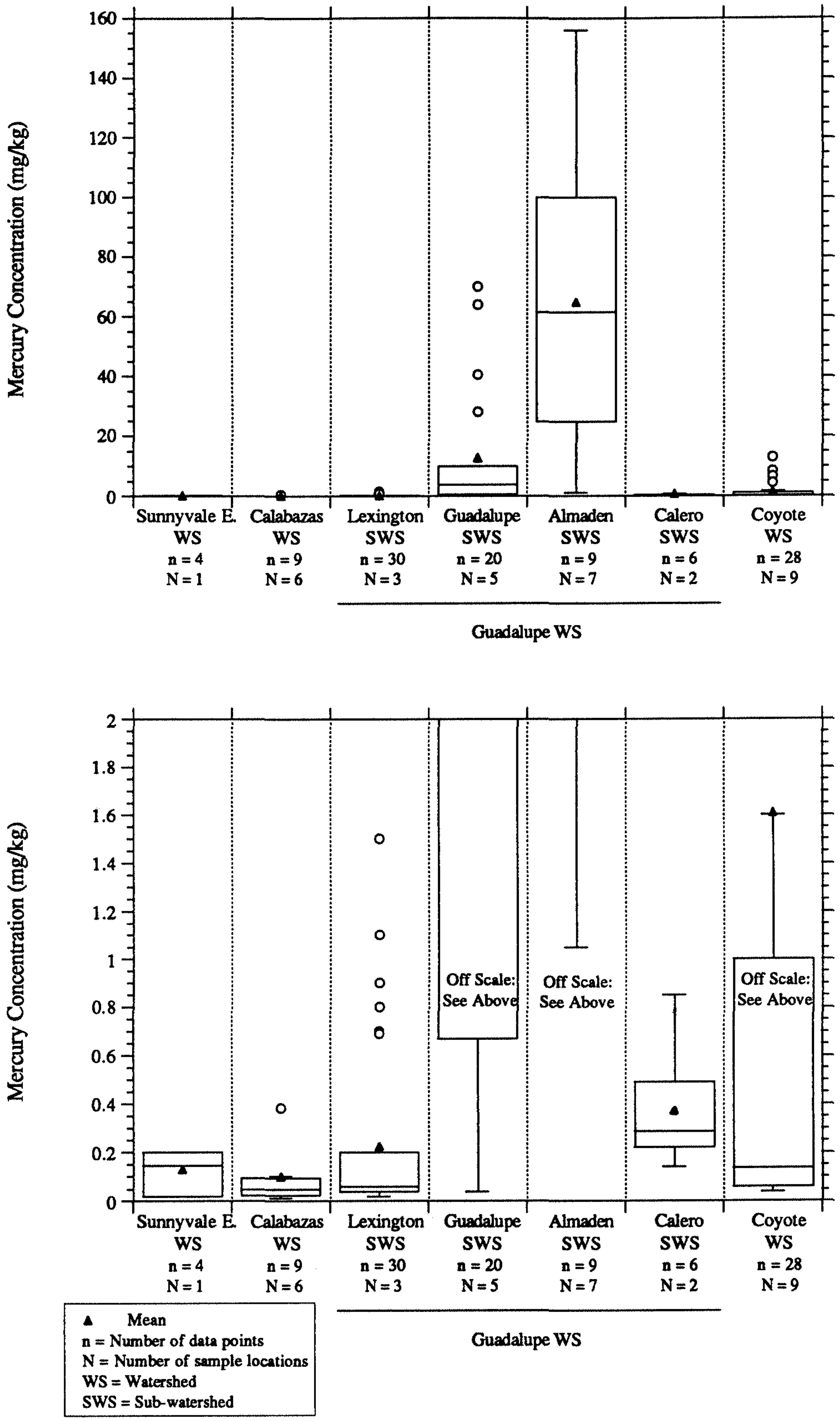


Figure 6. Stream Sediment Mercury Data for Santa Clara Valley Watersheds and Sub-watersheds at Two Different Scales

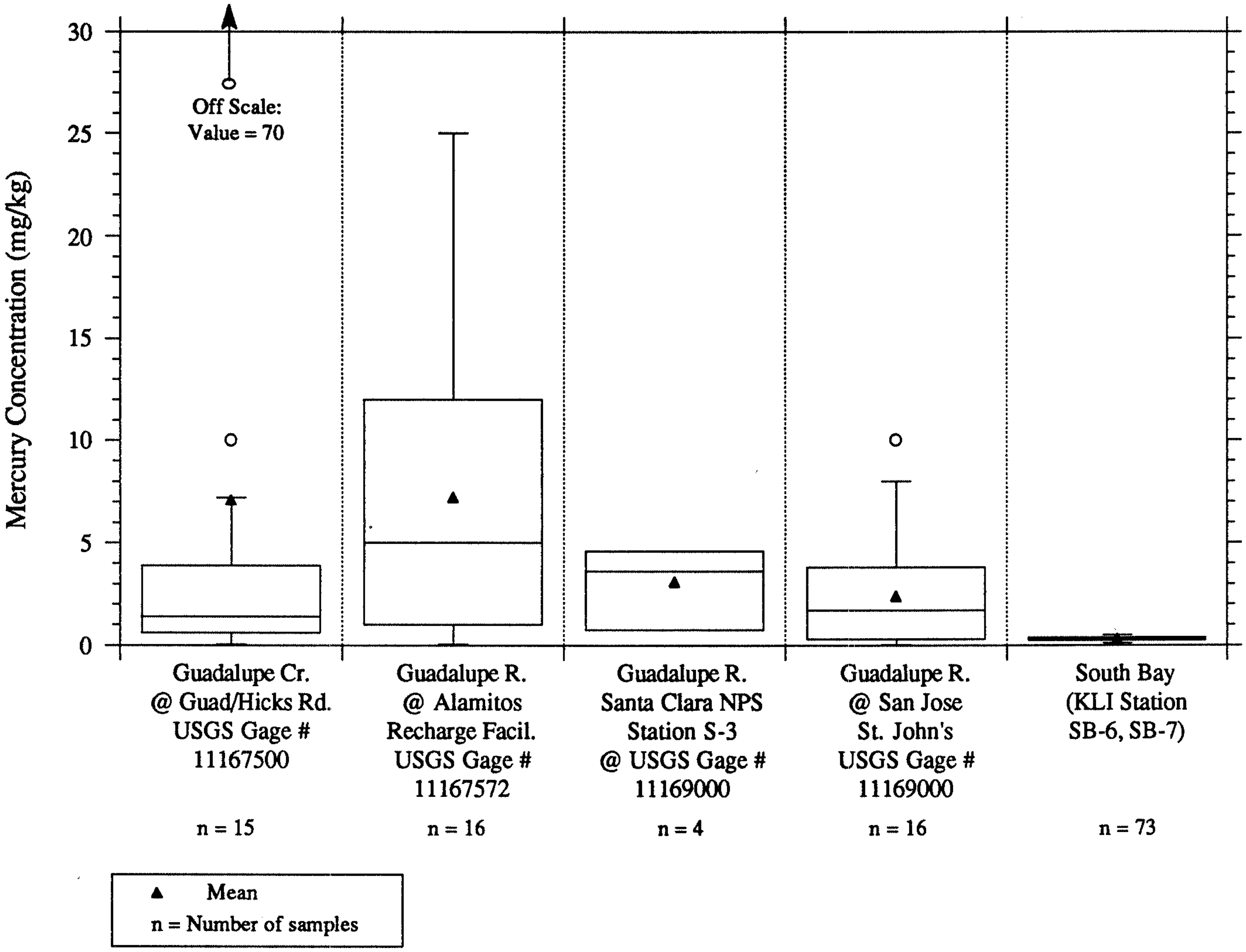


Figure 7. Sediment Mercury Concentrations Downstream of Guadalupe Reservoir

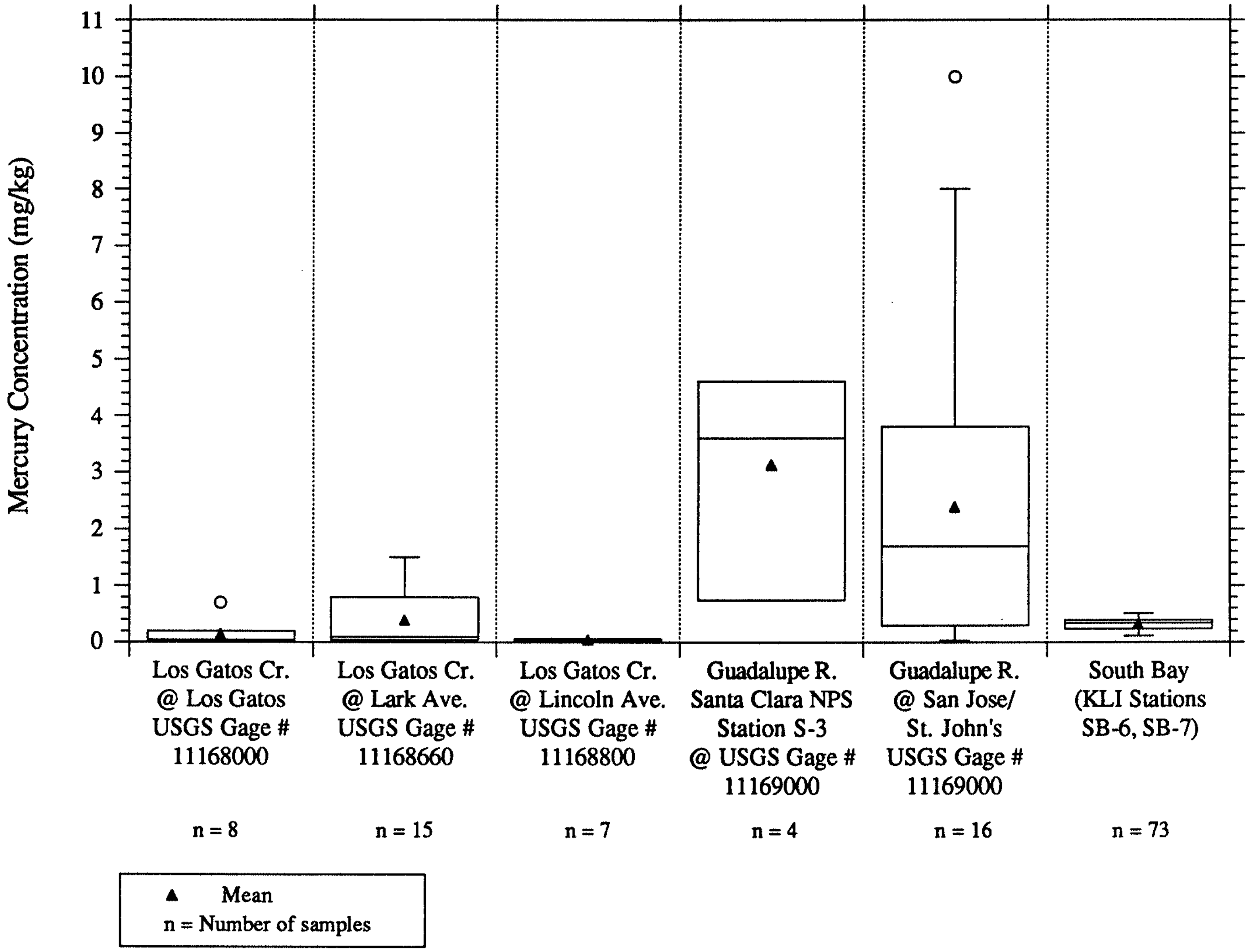


Figure 8. Sediment Mercury Concentrations Downstream of Lexington Reservoir

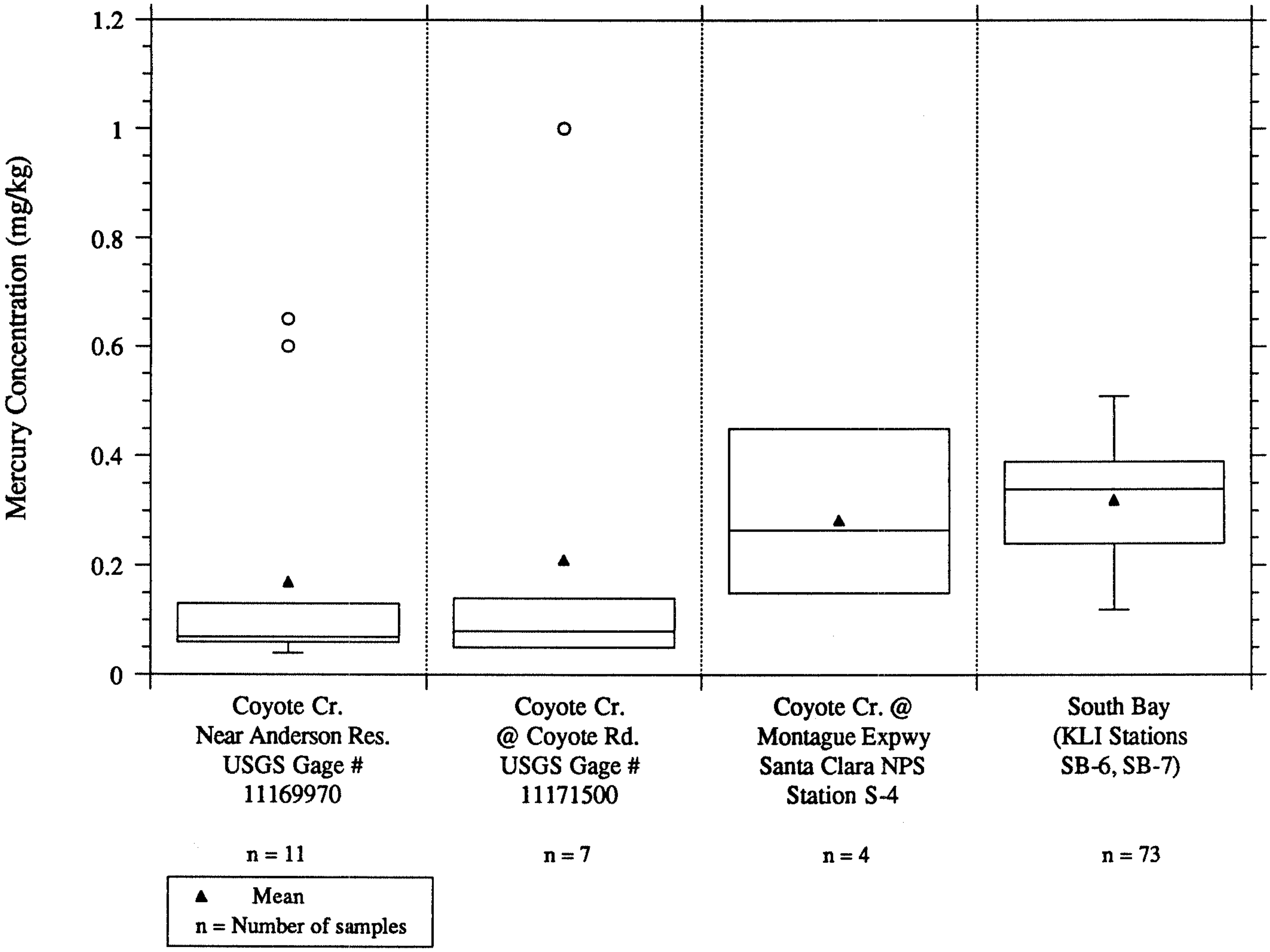


Figure 9. Sediment Mercury Data Downstream of Anderson and Coyote Reservoirs

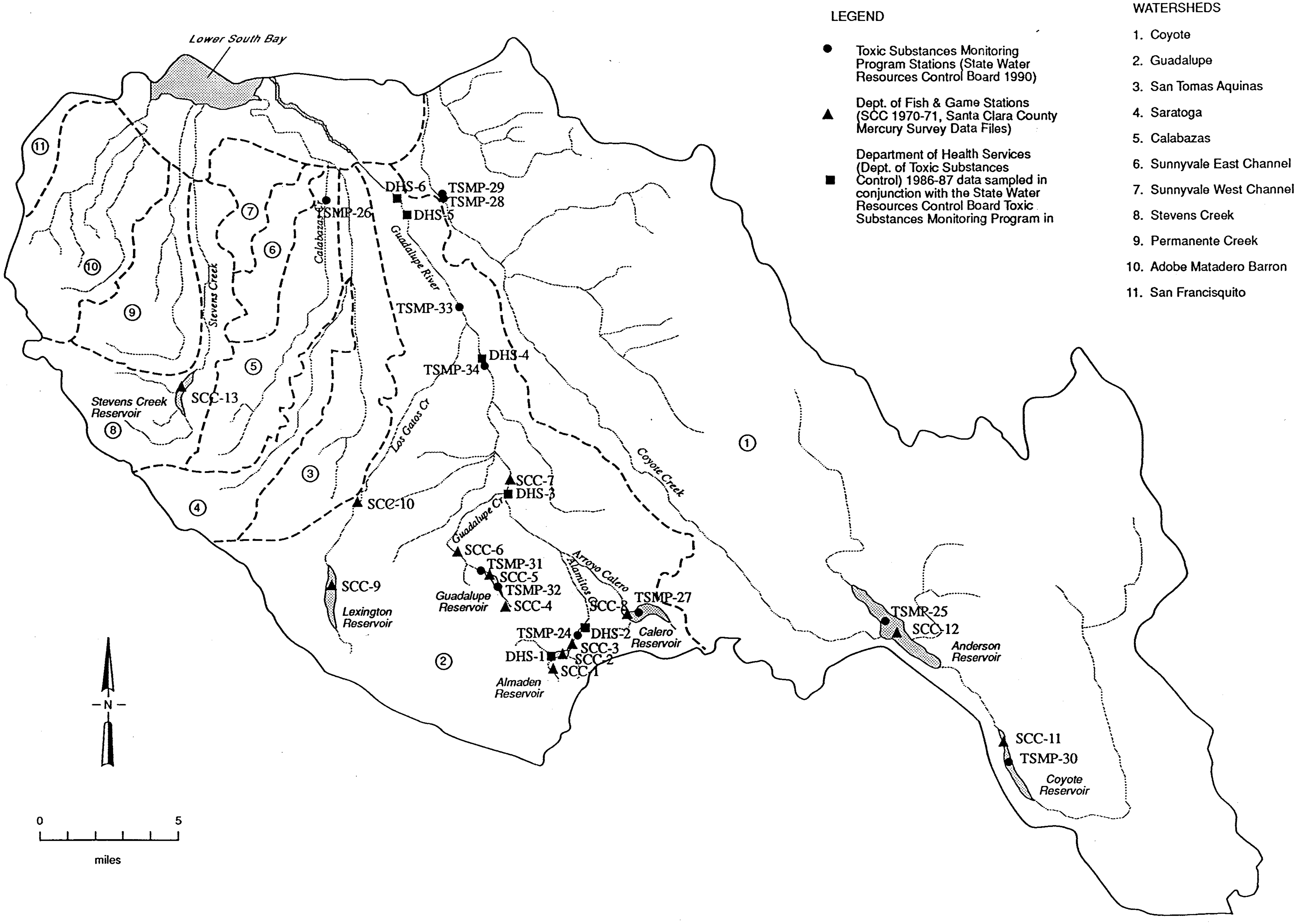


Figure 10. FISH TISSUE SAMPLING LOCATIONS AND WATERSHEDS

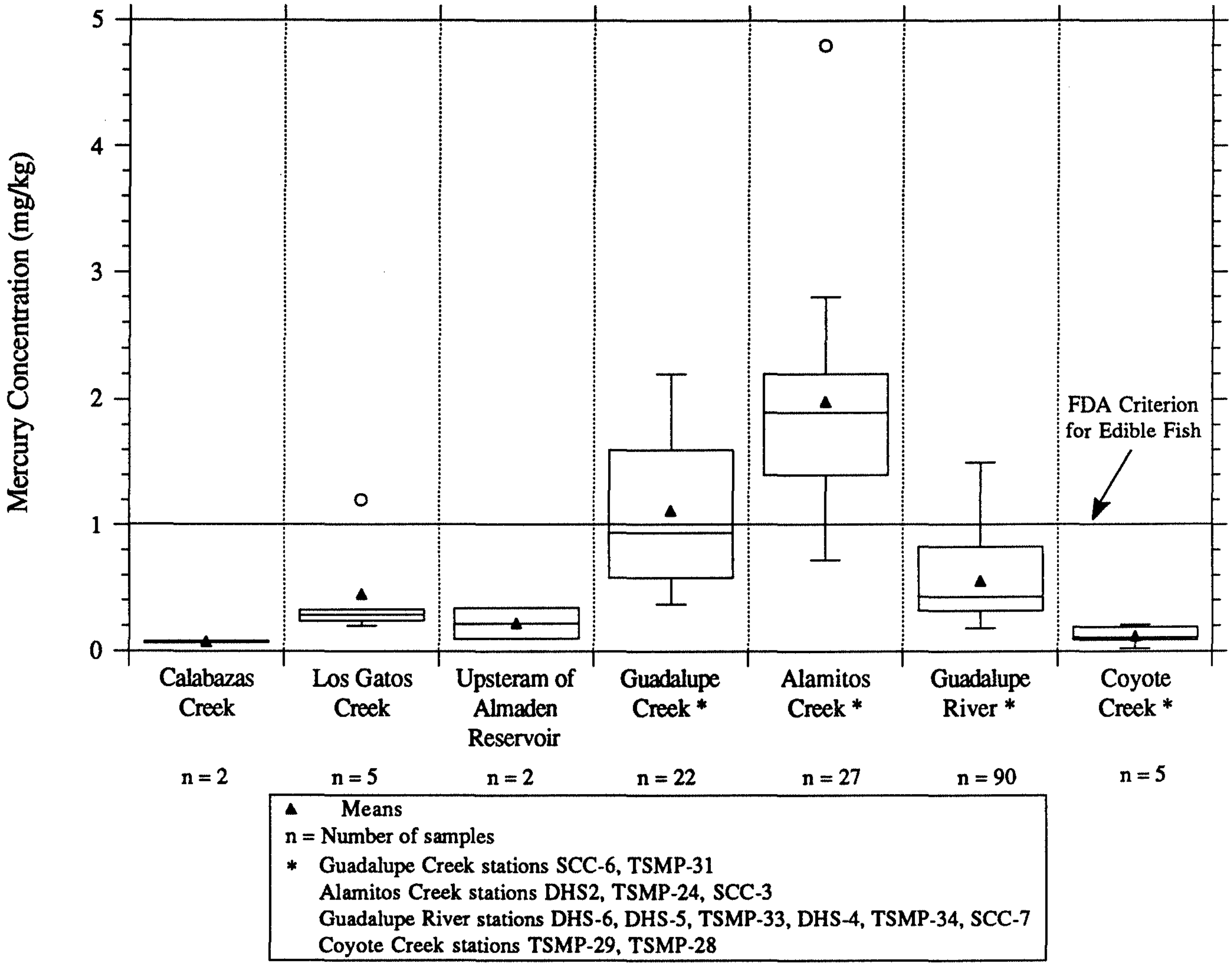


Fig 11. Fish Tissue Mercury Concentrations from Santa Clara Valley Streams

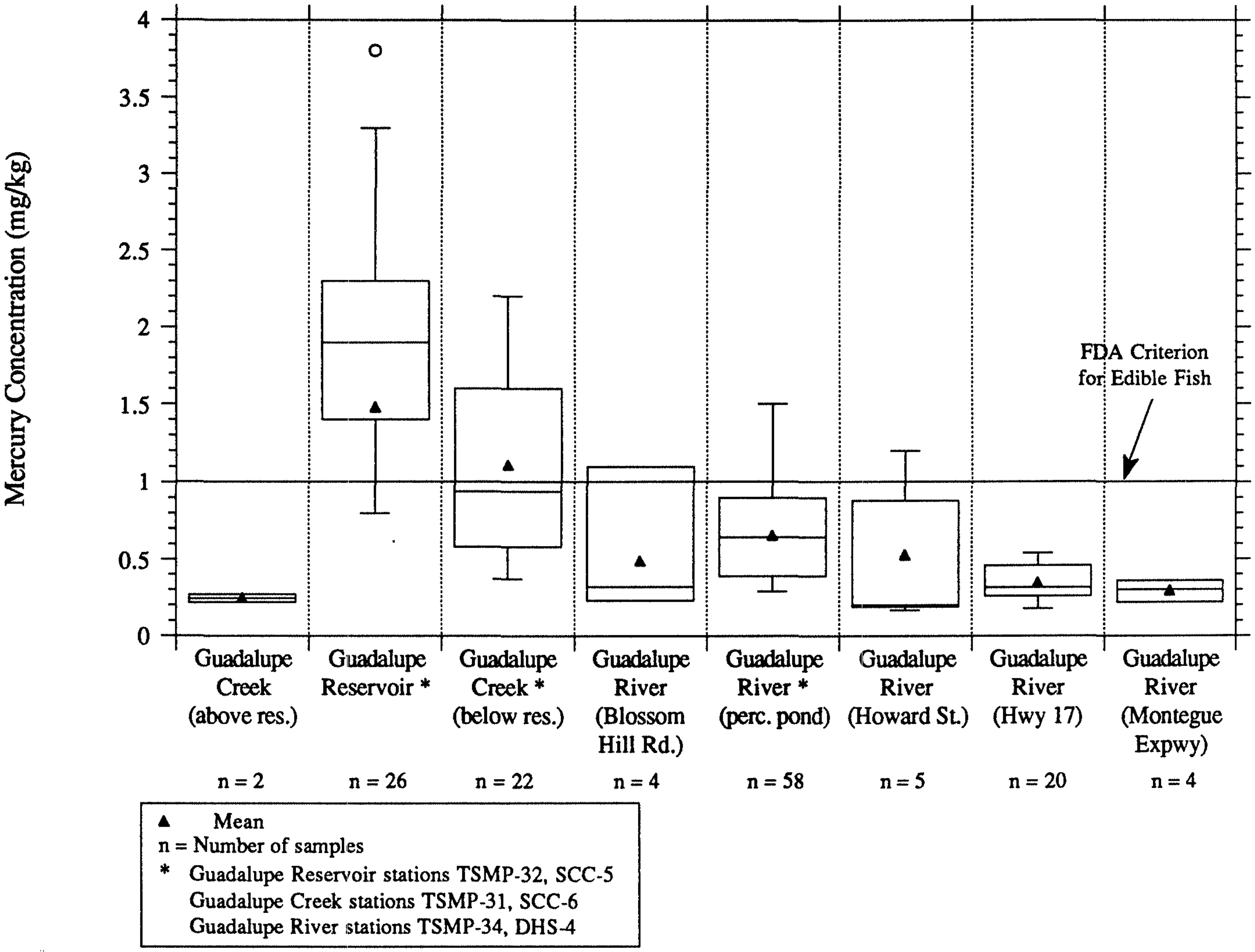


Figure 12. Fish Tissue Mercury Concentrations for the Guadalupe Watershed, Upstream to Downstream

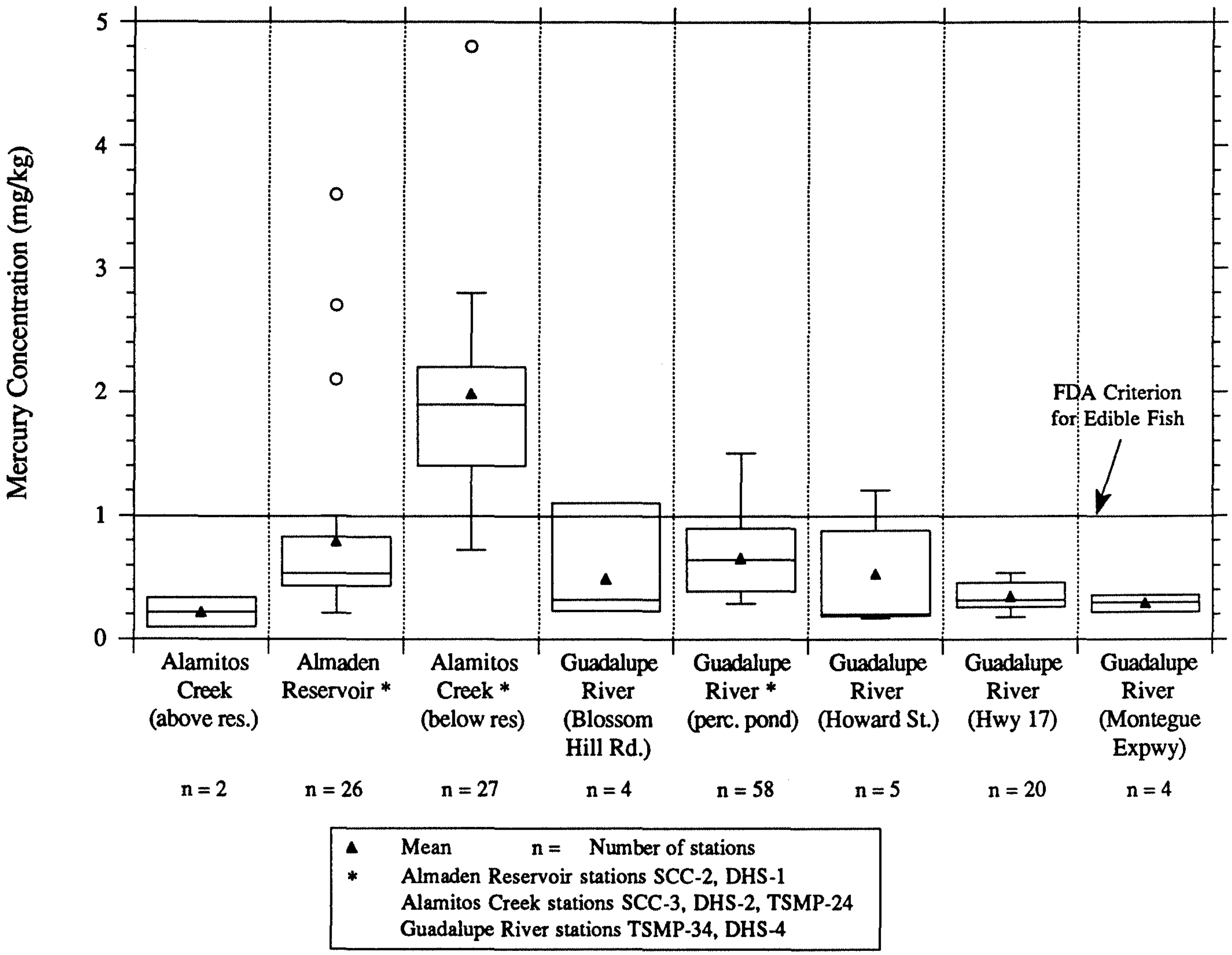


Figure 13. Fish Tissue Mercury Concentrations for the Almaden Sub-watershed, Upstream to Downstream

Table 2. Sediment Mercury Data from Santa Clara County Reservoirs

Watershed	Reservior	Location/Station ID	Date Collected	Mercury Conc. (mg/kg)	Dry/Wet Wt	Source
Stevens Creek	Stevens Creek	Stevens Creek	Jun-71	0.07	Dry	Stanford
Stevens Creek	Stevens Creek	Stevens Creek	May-71	0.20	Dry	Stanford
Guadalupe	Lexington	Lexington	Jun-71	0.12	Dry	Stanford
Guadalupe	Lexington	Lexington	Jun-71	0.25	Dry	Stanford
Guadalupe	Lexington	Lexington Res@Dam	6/11/85	0.2	Dry	USGS
Guadalupe	Guadelupe	Guadalupe Res@Dam	4/17/90	2.3	Dry	USGS-SCVWD
		Guadalupe Res@U/S End	4/17/90	2.4	Dry	USGS-SCVWD
Guadalupe	Almaden	Almaden Res@Dam	4/17/90	6.0	Dry	USGS-SCVWD
Guadalupe	Almaden	Almaden Res@ JG	4/17/90	16.0	Dry	USGS-SCVWD
Guadalupe	Almaden	Almaden Res@U/S End	4/17/90	20.0	Dry	USGS-SCVWD
Guadalupe	Almaden	N-25	1972	14.1	Dry	Stanford
Guadalupe	Almaden	N-27	1972	41.2	Dry	Stanford
Guadalupe	Almaden	Almaden Reservoir	Apr-71	35.6	Dry	Stanford
Guadalupe	Almaden	Almaden Reservoir	Apr-71	35.5	Dry	Stanford
Guadalupe	Almaden	Almaden Reservoir	Apr-71	47.5	Unknown	E&E, CDFG
Coyote	Coyote Res	Coyote Reservoir	Jun-71	0.1	Dry	Stanford
Coyote	Coyote Res	Coyote Reservoir	May-71	0.25	Dry	Stanford
Coyote	Anderson Res	Anderson Reservoir	Jun-71	0.05	Dry	Stanford
Coyote	Anderson Res	Anderson Reservoir	May-71	0.15	Dry	Stanford
Guadalupe	Calero	Calero@Canal	4/17/90	0.92	Dry	USGS-SCVWD
Guadalupe	Calero	Calero@Dam	1/19/82	0.59	Dry	USGS
Guadalupe	Calero	Calero@Dam	4/20/82	0.62	Dry	USGS-SCVWD
Guadalupe	Calero	Calero@Dam	6/15/82	0.51	Dry	USGS-SCVWD
Guadalupe	Calero	Calero@Dam	8/17/82	0.06	Dry	USGS-SCVWD
Guadalupe	Calero	Calero@Dam	12/7/82	0.42	Dry	USGS-SCVWD
Guadalupe	Calero	Calero@Dam	5/3/83	0.48	Dry	USGS-SCVWD
Guadalupe	Calero	Calero@Dam	6/15/83	0.37	Dry	USGS-SCVWD
Guadalupe	Calero	Calero@Dam	6/12/85	1.2	Dry	USGS-SCVWD
Guadalupe	Calero	Calero@Dam	9/12/85	0.8	Dry	USGS-SCVWD
Guadalupe	Calero	Calero@Dam	4/17/90	0.44	Dry	USGS-SCVWD
Guadalupe	Calero	Calero@Ctr	1/19/82	0.7	Dry	USGS
Guadalupe	Calero	Calero@Ctr	4/20/82	0.62	Dry	USGS-SCVWD
Guadalupe	Calero	Calero@Ctr	6/15/82	0.3	Dry	USGS-SCVWD
Guadalupe	Calero	Calero@Ctr	8/17/82	0.04	Dry	USGS-SCVWD
Guadalupe	Calero	Calero@Ctr	12/7/82	0.63	Dry	USGS-SCVWD
Guadalupe	Calero	Calero@Ctr	5/3/82	0.68	Dry	USGS-SCVWD
Guadalupe	Calero	Calero@Ctr	6/15/83	0.5	Dry	USGS-SCVWD
Guadalupe	Calero	Calero@Ctr	9/7/83	0.59	Dry	USGS-SCVWD
Guadalupe	Calero	Calero@U/S End	1/19/82	0.25	Dry	USGS
Guadalupe	Calero	Calero@U/S End	4/20/82	0.23	Dry	USGS-SCVWD
Guadalupe	Calero	Calero@U/S End	6/15/82	0.12	Dry	USGS-SCVWD
Guadalupe	Calero	Calero@U/S End	12/7/82	0.42	Dry	USGS-SCVWD
Guadalupe	Calero	Calero@U/S End	5/3/83	0.5	Dry	USGS-SCVWD
Guadalupe	Calero	Calero@U/S End	6/15/83	0.43	Dry	USGS-SCVWD
Guadalupe	Calero	Calero	Jun-71	1.1	Dry	Stanford
Guadalupe	Calero	Calero	Jun-71	3.15	Dry	Stanford
Guadalupe	Calero	Calero	May-71	1.2	Unknown	E&E, CDFG

Table 2. Sediment Mercury Data from Santa Clara County Reservoirs Concluded.

Sources:

E&E, CDFG	Ecology and Environment. 1989. CERCLA Site Inspection of Almaden Quicksilver County Park, Field Investigation Team Zone II, FIT Investigators from ICF Technology, Inc. US EPA Contract No. 68-01-7347, January 3, 1989.
Stanford	Stanford University. 1973. Trace Elements in Water: Origin, Fate, and Control: I. Mercury - Report of Progress, March 1, 1972 to February 1, 1973. National Science Foundation, RANN Grant No. GI-32943. Unpublished.
USGS	USGS. 1988. Water Resources Data for California, compiled by Woodward-Clyde Consultants from USGS WATSTORE database.
USGS-SCVWD	SCVWD. 1992. Sediment Data from USGS. 1990. Water Data Reports, Vol. 2. compiled by Kathy Russick of the Santa Clara Valley Water District, Camden, CA, faxed to Terry Cooke of WCC, April 28. 1992.

Table 3. Summary of Mercury Concentrations in Fish Tissues From Santa Clara County Streams and Reservoirs

Watershed	Location	Date	Fish Tissue (Flesh) Concentration ranges (ppm)	Number of Samples	Source
Guadalupe	Alamitos Creek (above Res.)	1970-71	0.10 - 0.34	2	SCC 70-71
Guadalupe	Almaden Reservoir	1970-71	0.52 - 3.60	7	SCC 70-71 & DHS/ESS-87
Guadalupe	Almaden Reservoir	1970	0.21 - 0.88	19	DHS/DTSC-1988
Guadalupe	Alamitos Creek (below Res.)	1970-71	0.72 - 4.8	3	SCC 70-71
Guadalupe	Alamitos Creek (below Res.)	1987	1.30 - 2.70	2	DHS/DTSC-1988
Guadalupe	Alamitos Creek (below Res.)	1986	1.20 - 2.80	23	SWRCB 1990
Guadalupe	Guadalupe Creek (above Res.)	1971	0.22 - 0.27	2	SCC 70-71
Guadalupe	Guadalupe Reservoir	1971	0.81 - 2.30	6	SCC 70-71
Guadalupe	Guadalupe Reservoir	1986	0.80 - 3.80	21	SWRCB 1990
Guadalupe	Guadalupe Creek (300' below Res.)	1986	0.37 - 2.20	21	SWRCB 1990
Guadalupe	Guadalupe Creek (2000' below Res.)	1971	1.2 - 2.1	3	SCC 70-71
Guadalupe	Guadalupe Creek (Blossom Hill Rd.)	1971	0.23 - 1.10	4	SCC 70-71
Guadalupe	Guadalupe River (Blossom Hill Rd.)	1987	0.26 - 0.60	21	DHS/DTSC-1988
Guadalupe	Guadalupe River (Percolation Pond)	1986	0.76 - 1.20	21	SWRCB 1990
Guadalupe	Guadalupe River (Percolation Pond NE)	1986	0.29 - 1.50	37	DHS/DTSC-1988
Guadalupe	Guadalupe River (Howard St.)	1981-84	0.17 - 1.20	5	SWRCB 1990
Guadalupe	Guadalupe River (Highway 17)	1987	0.18 - 0.54	20	DHS/DTSC-1988
Guadalupe	Guadalupe River (Montegue Expwy)	1987	0.22 - 0.36	4	DHS/DTSC-1988
Guadalupe	Calero Reservoir	1971	0.15 - 5.10	8	SCC 70-71
Guadalupe	Calero Reservoir	1986	1.10 - 3.10	22	SWRCB 1990
Guadalupe	Lexington Reservoir	1971	0.04 - 0.87	11	SCC 70-71
Guadalupe	Campbell (Camden) Perc Pond	1971	0.20 - 1.2	5	SCC 70-71
Coyote	Coyote Reservoir	1971	0.01 - 0.90	9	SCC 70-71
Coyote	Coyote Reservoir	1986	0.51	1	SWRCB 1990

Table 3. Summary of Mercury Concentrations in Fish Tissues From Santa Clara County Streams and Reservoirs, concluded.

Watershed	Location	Date	Fish Tissue (Flesh) Concentration ranges (ppm)	Number of Samples	Source
Coyote	Anderson Reservoir	1971	0.11 - 0.41	7	SCC 70-71
Coyote	Anderson Reservoir	1986	0.93	1	SWRCB 1990
Coyote	Coyote Cr. (Montague Expwy)	1981-84	0.09 - 0.21	4	SWRCB 1990
Coyote	Coyote Cr. (Brokaw Rd.)	1987	< 0.02	1	SWRCB 1990
Stevens Creek	Stevens Creek Reservoir	1971	0.12 - 1.40	11	SCC 70-71
Calabazas	Calabazas Cr. (Downstream Tazman Dr.)	1987	0.07 - 0.08	2	SWRCB 1990

Sources:

SCC 70-71: Santa Clara County Mercury Survey data from the Dept. of Fish & Game.

SCC 70-71 & DHS/ESS-87: Missing data from SCC 70-71 (Dept. of Fish and Game file) was found in DHS 1987 (see references).

DHS/DTSC-1988: Data obtained from the Department of Health Services Toxic Substance Control Division in the Almaden-Quicksilve files. DHS (DTSC) 1992.

SWRCB 1990: Data from the Toxic Substances Monitoring Program Ten Year Summary Report, 1978-1987.

Table 4. Mercury Concentrations in Fish Tissues from Santa Clara County Streams and Reservoirs

Watershed (Subwatershed)	Location	WCC Map ID.	Station ID. No.	Date Collected	Conc. Hg (ppm)	Tissue	Fish Common Name	Length(cm)/ Weight(g)	Source
Guadalupe (Almaden)	Alamitos Cr. (above Res.)	SCC-1	392-71	Mar-71	0.34	Flesh	Rainbow Trout	11/26.5	SCC 70-71
Guadalupe (Almaden)	Alamitos Cr. (above Res.)	SCC-1	392-71	Mar-71	0.10	Flesh	Rainbow Trout	23/129.5	SCC 70-71
Guadalupe (Almaden)	Almaden Reservoir	SCC-2	-	Nov-70	1.00	Flesh	Black Bass	-	SCC 70-71 & DHS/ESS-87
Guadalupe (Almaden)	Almaden Reservoir	SCC-2	-	" "	1.70	Liver	" "	-	SCC 70-71 & DHS/ESS-87
Guadalupe (Almaden)	Almaden Reservoir	SCC-2	-	Nov-70	2.70	Flesh	Black Bass	-	SCC 70-71 & DHS/ESS-87
Guadalupe (Almaden)	Almaden Reservoir	SCC-2	-	" "	4.60	Liver	" "	-	SCC 70-71 & DHS/ESS-87
Guadalupe (Almaden)	Almaden Reservoir	SCC-2	-	" "	2.10	Kidney	" "	-	SCC 70-71 & DHS/ESS-87
Guadalupe (Almaden)	Almaden Reservoir	SCC-2	-	Nov-70	3.60	Flesh	Black Bass	-	SCC 70-71 & DHS/ESS-87
Guadalupe (Almaden)	Almaden Reservoir	SCC-2	-	Nov-70	0.52	Flesh	Red Ear Sunfish	-	SCC 70-71 & DHS/ESS-87
Guadalupe (Almaden)	Almaden Reservoir	SCC-2	-	Nov-70	0.63	Flesh	Red Ear Sunfish	-	SCC 70-71 & DHS/ESS-87
Guadalupe (Almaden)	Almaden Reservoir	SCC-2	-	Nov-70	2.10	Flesh	Goldfish	-	SCC 70-71 & DHS/ESS-87
Guadalupe (Almaden)	Almaden Reservoir	SCC-2	-	" "	1.40	Liver	" "	-	SCC 70-71 & DHS/ESS-87
Guadalupe (Almaden)	Almaden Reservoir	SCC-2	-	Nov-70	0.83	Flesh	Goldfish	-	SCC 70-71 & DHS/ESS-87
Guadalupe (Almaden)	Almaden Reservoir	SCC-2	-	" "	1.20	Liver	" "	-	SCC 70-71 & DHS/ESS-87
Guadalupe (Almaden)	Almaden Reservoir	DHS-1	53.028.F.87	7/1/87	0.53	-	Bullhead	-	DHS/DTSC-1988
Guadalupe (Almaden)	Almaden Reservoir	DHS-1	53.029.F.87	7/1/87	0.33	-	Bullhead	-	DHS/DTSC-1988
Guadalupe (Almaden)	Almaden Reservoir	DHS-1	53.030.F.87	7/1/87	0.33	-	Bullhead	-	DHS/DTSC-1988
Guadalupe (Almaden)	Almaden Reservoir	DHS-1	53.031.F.87	7/1/87	0.75	-	Bullhead	-	DHS/DTSC-1988
Guadalupe (Almaden)	Almaden Reservoir	DHS-1	53.032.F.87	7/1/87	0.40	-	Bullhead	-	DHS/DTSC-1988
Guadalupe (Almaden)	Almaden Reservoir	DHS-1	53.033.F.87	7/1/87	0.26	-	Bullhead	-	DHS/DTSC-1988
Guadalupe (Almaden)	Almaden Reservoir	DHS-1	53.034.F.87	7/1/87	0.21	-	Bullhead	-	DHS/DTSC-1988
Guadalupe (Almaden)	Almaden Reservoir	DHS-1	53.035.F.87	7/1/87	0.54	-	Bullhead	-	DHS/DTSC-1988
Guadalupe (Almaden)	Almaden Reservoir	DHS-1	53.036.F.87	7/1/87	0.66	-	Bullhead	-	DHS/DTSC-1988
Guadalupe (Almaden)	Almaden Reservoir	DHS-1	53.037.F.87	7/1/87	0.85	-	Bullhead	-	DHS/DTSC-1988
Guadalupe (Almaden)	Almaden Reservoir	DHS-1	53.038.F.87	7/1/87	0.88	-	Bullhead	-	DHS/DTSC-1988
Guadalupe (Almaden)	Almaden Reservoir	DHS-1	53.039.F.87	6/30/87	0.55	-	Rainbow Trout	-	DHS/DTSC-1988
Guadalupe (Almaden)	Almaden Reservoir	DHS-1	53.040.F.87	6/30/87	0.53	-	Rainbow Trout	-	DHS/DTSC-1988
Guadalupe (Almaden)	Almaden Reservoir	DHS-1	53.041.F.87	6/30/87	0.39	-	Rainbow Trout	-	DHS/DTSC-1988
Guadalupe (Almaden)	Almaden Reservoir	DHS-1	53.042.F.87	6/30/87	0.44	-	Rainbow Trout	-	DHS/DTSC-1988
Guadalupe (Almaden)	Almaden Reservoir	DHS-1	53.043.F.87	6/30/87	0.43	-	Rainbow Trout	-	DHS/DTSC-1988
Guadalupe (Almaden)	Almaden Reservoir	DHS-1	53.044.F.87	7/1/87	0.45	-	Rainbow Trout	-	DHS/DTSC-1988
Guadalupe (Almaden)	Almaden Reservoir	DHS-1	53.045.F.87	7/1/87	0.56	-	Rainbow Trout	-	DHS/DTSC-1988
Guadalupe (Almaden)	Almaden Reservoir	DHS-1	53.046.F.87	7/1/87	0.52	-	Rainbow Trout	-	DHS/DTSC-1988
Guadalupe (Almaden)	Alamitos Cr. (below Res.)	SCC-3	392-71	Mar-71	0.72	Flesh	Rainbow Trout	13/32	SCC 70-71
Guadalupe (Almaden)	Alamitos Cr. (below Res.)	SCC-3	392-71	Mar-71	4.80	Flesh	Rainbow Trout	40/625	SCC 70-71
Guadalupe (Almaden)	Alamitos Cr. (below Res.)	SCC-3	" "	" "	4.40	Gill	" "	" "	SCC 70-71
Guadalupe (Almaden)	Alamitos Cr. (below Res.)	SCC-3	" "	" "	10.3	Liver	" "	" "	SCC 70-71
Guadalupe (Almaden)	Alamitos Cr. (below Res.)	SCC-3	" "	" "	15.1	Kidney	" "	" "	SCC 70-71
Guadalupe (Almaden)	Alamitos Cr. (below Res.)	SCC-3	392-71	Apr-71	1.20	Flesh	Monterey Sucker	20/116	SCC 70-71
Guadalupe (Almaden)	Alamitos Cr.	DHS-2	53.001.F.87	7/2/87	1.30	-	Rainbow Trout	-	DHS/DTSC-1988
Guadalupe (Almaden)	Alamitos Cr.	DHS-2	53.002.F.87	7/2/87	2.70	-	Sucker	-	DHS/DTSC-1988

- Data not available

" " Analysis from same fish listed above (different tissue).

Sources: See summary table (Table 3).

Table 4. Mercury Concentrations in Fish Tissues from Santa Clara County Streams and Reservoirs continued.

Watershed	Location	WCC Map ID.	Station ID. No.	Date Collected	Conc. Hg (ppm)	Tissue	Fish Common Name	Length(cm)/ Weight(g)	Source
Guadalupe (Almaden)	Alamitos Cr. (below res.)	TSMP-24	205.40.17	8/14/86	2.00	Fillet	Rainbow Trout	7.4/6.4	SWRCB 1990
Guadalupe (Almaden)	Alamitos Cr. (below res.)	TSMP-24	205.40.17	8/14/86	1.30	Fillet	Rainbow Trout	9.3/11.5	SWRCB 1990
Guadalupe (Almaden)	Alamitos Cr. (below res.)	TSMP-24	205.40.17	8/14/86	2.60	Fillet	Rainbow Trout	8.7/8.6	SWRCB 1990
Guadalupe (Almaden)	Alamitos Cr. (below res.)	TSMP-24	205.40.17	8/14/86	2.10	Fillet	Rainbow Trout	7.6/7.8	SWRCB 1990
Guadalupe (Almaden)	Alamitos Cr. (below res.)	TSMP-24	205.40.17	8/14/86	1.90	Fillet	Rainbow Trout	10/14.8	SWRCB 1990
Guadalupe (Almaden)	Alamitos Cr. (below res.)	TSMP-24	205.40.17	8/14/86	2.20	Fillet	Rainbow Trout	8.9/10.2	SWRCB 1990
Guadalupe (Almaden)	Alamitos Cr. (below res.)	TSMP-24	205.40.17	8/14/86	1.70	Fillet	Rainbow Trout	9.5/13.3	SWRCB 1990
Guadalupe (Almaden)	Alamitos Cr. (below res.)	TSMP-24	205.40.17	8/14/86	1.40	Fillet	Rainbow Trout	7.9/8.0	SWRCB 1990
Guadalupe (Almaden)	Alamitos Cr. (below res.)	TSMP-24	205.40.17	8/14/86	2.10	Fillet	Rainbow Trout	7.5/6.4	SWRCB 1990
Guadalupe (Almaden)	Alamitos Cr. (below res.)	TSMP-24	205.40.17	8/14/86	2.80	Fillet	Rainbow Trout	7.8/7.3	SWRCB 1990
Guadalupe (Almaden)	Alamitos Cr. (below res.)	TSMP-24	205.40.17	8/14/86	1.90	Fillet	Rainbow Trout	8.8/9.9	SWRCB 1990
Guadalupe (Almaden)	Alamitos Cr. (below res.)	TSMP-24	205.40.17	8/14/86	1.80	Fillet	Rainbow Trout	9.5/12.3	SWRCB 1990
Guadalupe (Almaden)	Alamitos Cr. (below res.)	TSMP-24	205.40.17	8/14/86	1.70	Fillet	Rainbow Trout	8.4/8.3	SWRCB 1990
Guadalupe (Almaden)	Alamitos Cr. (below res.)	TSMP-24	205.40.17	8/14/86	1.50	Fillet	Rainbow Trout	7.5/6.3	SWRCB 1990
Guadalupe (Almaden)	Alamitos Cr. (below res.)	TSMP-24	205.40.17	8/14/86	1.70	Fillet	Rainbow Trout	8.1/8.6	SWRCB 1990
Guadalupe (Almaden)	Alamitos Cr. (below res.)	TSMP-24	205.40.17	8/14/86	1.40	Fillet	Rainbow Trout	7.5/6.8	SWRCB 1990
Guadalupe (Almaden)	Alamitos Cr. (below res.)	TSMP-24	205.40.17	8/14/86	2.20	Fillet	Rainbow Trout	7.6/7.0	SWRCB 1990
Guadalupe (Almaden)	Alamitos Cr. (below res.)	TSMP-24	205.40.17	8/14/86	1.80	Fillet	Rainbow Trout	8.4/9.2	SWRCB 1990
Guadalupe (Almaden)	Alamitos Cr. (below res.)	TSMP-24	205.40.17	8/14/86	2.70	Fillet	Rainbow Trout	7.9/7.1	SWRCB 1990
Guadalupe (Almaden)	Alamitos Cr. (below res.)	TSMP-24	205.40.17	8/14/86	1.70	Fillet	Rainbow Trout	Composite	SWRCB 1990
Guadalupe (Almaden)	Alamitos Cr. (below res.)	TSMP-24	205.40.17	8/14/86	2.20	Fillet	Rainbow Trout	7.2/6.5	SWRCB 1990
Guadalupe (Almaden)	Alamitos Cr. (below res.)	TSMP-24	205.40.17	7/2/87	1.20	Fillet	Rainbow Trout	-	SWRCB 1990
Guadalupe (Almaden)	Alamitos Cr. (below res.)	TSMP-24	205.40.17	7/2/87	2.70	Fillet	Sucker	-	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe Cr. (above res.)	SCC-4	428-71	Apr-71	0.27	Flesh	Rainbow Trout	16/40	SCC 70-71
Guadalupe (Guadalupe)	Guadalupe Cr. (above res.)	SCC-4	428-71	Apr-71	0.22	Flesh	Rainbow Trout	11/20	SCC 70-71
Guadalupe (Guadalupe)	Guadalupe Res.	SCC-5	484-71	Jul-71	1.10	Flesh	Rainbow Trout	23/200	SCC 70-71
Guadalupe (Guadalupe)	Guadalupe Res.	SCC-5	484-71	Jul-71	1.40	Flesh	Rainbow Trout	20/111	SCC 70-71
Guadalupe (Guadalupe)	Guadalupe Res.	SCC-5	484-71	Jul-71	0.84	Flesh	Rainbow Trout	34/560	SCC 70-71
Guadalupe (Guadalupe)	Guadalupe Res.	SCC-5	484-71	Jul-71	2.30	Flesh	Rainbow Trout	20/160	SCC 70-71
Guadalupe (Guadalupe)	Guadalupe Res.	SCC-5	484-71	Jul-71	1.50	Flesh	Rainbow Trout	19/57	SCC 70-71
Guadalupe (Guadalupe)	Guadalupe Res.	SCC-5	484-71	Jul-71	0.81	Flesh	Rainbow Trout	34/490	SCC 70-71
Guadalupe (Guadalupe)	Guadalupe Res.	TSMP-32	205.40.14	10/23/86	1.50	Fillet	Blue Gill	18/140	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe Res.	TSMP-32	205.40.14	10/23/86	2.30	Fillet	Blue Gill	23/344	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe Res.	TSMP-32	205.40.14	10/23/86	1.30	Fillet	Blue Gill	17/118	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe Res.	TSMP-32	205.40.14	10/23/86	1.80	Fillet	Blue Gill	19/162	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe Res.	TSMP-32	205.40.14	10/23/86	2.30	Fillet	Blue Gill	18/145	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe Res.	TSMP-32	205.40.14	10/23/86	2.40	Fillet	Blue Gill	18/142	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe Res.	TSMP-32	205.40.14	10/23/86	2.30	Fillet	Blue Gill	18/134	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe Res.	TSMP-32	205.40.14	10/23/86	0.80	Fillet	Blue Gill	16/93	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe Res.	TSMP-32	205.40.14	10/23/86	1.90	Fillet	Blue Gill	17/126	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe Res.	TSMP-32	205.40.14	10/23/86	2.00	Fillet	Blue Gill	18/131	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe Res.	TSMP-32	205.40.14	10/23/86	1.10	Fillet	Blue Gill	19/177	SWRCB 1990

- Data not available

" " Analysis from same fish listed above (different tissue).

Sources: See summary table (Table 3).

Table 4. Mercury Concentrations in Fish Tissues from Santa Clara County Streams and Reservoirs continued.

Watershed	Location	WCC Map ID.	Station ID. No.	Date Collected	Conc. Hg (ppm)	Tissue	Fish Common Name	Length(cm)/ Weight(g)	Source
Guadalupe (Guadalupe)	Guadalupe Res.	TSMP-32	205.40.14	10/23/86	2.00	Fillet	Blue Gill	19/186	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe Res.	TSMP-32	205.40.14	10/23/86	1.40	Fillet	Blue Gill	19/210	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe Res.	TSMP-32	205.40.14	10/23/86	1.90	Fillet	Blue Gill	17/127	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe Res.	TSMP-32	205.40.14	10/23/86	3.80	Fillet	Blue Gill	21/262	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe Res.	TSMP-32	205.40.14	10/23/86	2.90	Fillet	Blue Gill	20/206	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe Res.	TSMP-32	205.40.14	10/23/86	1.40	Fillet	Blue Gill	17/141	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe Res.	TSMP-32	205.40.14	10/23/86	3.30	Fillet	Blue Gill	21/243	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe Res.	TSMP-32	205.40.14	10/23/86	2.20	Fillet	Blue Gill	19/159	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe Res.	TSMP-32	205.40.14	10/23/86	2.30	Fillet	Blue Gill	17/136	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe Res.	TSMP-32	205.40.14	10/23/86	1.90	Fillet	Blue Gill	Composite	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe R. (300' below res.)	TSMP-31	205.40.13	8/13/86	0.85	Fillet	Rainbow Trout	17/65	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe R. (300' below res.)	TSMP-31	205.40.13	8/13/86	1.90	Fillet	Rainbow Trout	19/79	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe R. (300' below res.)	TSMP-31	205.40.13	8/13/86	0.51	Fillet	Rainbow Trout	17/60	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe R. (300' below res.)	TSMP-31	205.40.13	8/13/86	0.85	Fillet	Rainbow Trout	16/50	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe R. (300' below res.)	TSMP-31	205.40.13	8/13/86	1.00	Fillet	Rainbow Trout	9.5/12	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe R. (300' below res.)	TSMP-31	205.40.13	8/13/86	1.90	Fillet	Rainbow Trout	17/62	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe R. (300' below res.)	TSMP-31	205.40.13	8/13/86	1.30	Fillet	Rainbow Trout	16/50	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe R. (300' below res.)	TSMP-31	205.40.13	8/13/86	1.40	Fillet	Rainbow Trout	14/31	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe R. (300' below res.)	TSMP-31	205.40.13	8/13/86	2.20	Fillet	Rainbow Trout	14/35	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe R. (300' below res.)	TSMP-31	205.40.13	8/13/86	0.75	Fillet	Rainbow Trout	11/17	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe R. (300' below res.)	TSMP-31	205.40.13	8/13/86	0.54	Fillet	Rainbow Trout	10/15	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe R. (300' below res.)	TSMP-31	205.40.13	8/13/86	0.58	Fillet	Rainbow Trout	9.5/13	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe R. (300' below res.)	TSMP-31	205.40.13	8/13/86	1.30	Fillet	Rainbow Trout	14/34	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe R. (300' below res.)	TSMP-31	205.40.13	8/13/86	0.64	Fillet	Rainbow Trout	9.6/13	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe R. (300' below res.)	TSMP-31	205.40.13	8/13/86	0.42	Fillet	Rainbow Trout	14/37	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe R. (300' below res.)	TSMP-31	205.40.13	8/13/86	0.41	Fillet	Rainbow Trout	15/40	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe R. (300' below res.)	TSMP-31	205.40.13	8/13/86	0.37	Fillet	Rainbow Trout	16/47	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe R. (300' below res.)	TSMP-31	205.40.13	8/13/86	0.46	Duplicate	Rainbow Trout	" "	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe R. (300' below res.)	TSMP-31	205.40.13	8/13/86	1.80	Fillet	Rainbow Trout	15/43	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe R. (300' below res.)	TSMP-31	205.40.13	8/13/86	0.88	Fillet	Rainbow Trout	19/74	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe R. (300' below res.)	TSMP-31	205.40.13	8/13/86	1.00	Fillet	Rainbow Trout	Composite	SWRCB 1990
Guadalupe (Guadalupe)	Guadalupe R. (2000' below res.)	SCC-6	422-71	May-71	2.10	Flesh	Green Sunfish	15/69	SCC 70-71
Guadalupe (Guadalupe)	Guadalupe R. (2000' below res.)	SCC-6	422-71	May-71	1.60	Flesh	Green Sunfish	12/35	SCC 70-71
Guadalupe (Guadalupe)	Guadalupe R. (2000' below res.)	SCC-6	422-71	May-71	1.20	Flesh	Monterey Sucker	25/183	SCC 70-71
Guadalupe	Guadalupe R. (Blossom Hill Rd.)	SCC-7	427-71	May-71	0.23	Flesh	Monterey Sucker	20/101	SCC 70-71
Guadalupe	Guadalupe R. (Blossom Hill Rd.)	SCC-7	427-71	May-71	1.10	Flesh	Goldfish	20/194	SCC 70-71
Guadalupe	Guadalupe R. (Blossom Hill Rd.)	SCC-7	427	May-71	0.32	Flesh	Blue Gill	14/62	SCC 70-71
Guadalupe	Guadalupe R. (Blossom Hill Rd.)	SCC-7	427-71	May-71	0.32	Flesh	Carp	21/227	SCC 70-71

- Data not available

" " Analysis from same fish listed above (different tissue).

Sources: See summary table (Table 3).

Table 4. Mercury Concentrations in Fish Tissues from Santa Clara County Streams and Reservoirs continued.

Watershed	Location	WCC Map ID.	Station ID. No.	Date Collected	Conc. Hg (ppm)	Tissue	Fish Common Name	Length(cm)/ Weight(g)	Source
Guadalupe	Guadalupe R. (Blossom Hill Rd.)	DHS-3	53.086.F.87	6/30/87	0.60	-	Crayfish	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Blossom Hill Rd.)	DHS-3	53.087.F.87	6/30/87	0.40	-	Crayfish	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Blossom Hill Rd.)	DHS-3	53.088.F.87	6/30/87	0.59	-	Crayfish	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Blossom Hill Rd.)	DHS-3	53.089.F.87	6/30/87	0.43	-	Crayfish	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Blossom Hill Rd.)	DHS-3	53.090.F.87	6/30/87	0.55	-	Crayfish	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Blossom Hill Rd.)	DHS-3	53.091.F.87	6/30/87	0.42	-	Crayfish	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Blossom Hill Rd.)	DHS-3	53.092.F.87	6/30/87	0.45	-	Crayfish	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Blossom Hill Rd.)	DHS-3	53.093.F.87	6/30/87	0.36	-	Crayfish	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Blossom Hill Rd.)	DHS-3	53.094.F.87	6/30/87	0.38	-	Crayfish	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Blossom Hill Rd.)	DHS-3	53.095.F.87	6/30/87	0.39	-	Crayfish	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Blossom Hill Rd.)	DHS-3	53.096.F.87	6/30/87	0.35	-	Crayfish	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Blossom Hill Rd.)	DHS-3	53.097.F.87	6/30/87	0.39	-	Crayfish	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Blossom Hill Rd.)	DHS-3	53.098.F.87	6/30/87	0.31	-	Crayfish	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Blossom Hill Rd.)	DHS-3	53.099.F.87	6/30/87	0.41	-	Crayfish	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Blossom Hill Rd.)	DHS-3	53.100.F.87	6/30/87	0.44	-	Crayfish	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Blossom Hill Rd.)	DHS-3	53.101.F.87	6/30/87	0.32	-	Crayfish	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Blossom Hill Rd.)	DHS-3	53.102.F.87	6/30/87	0.34	-	Crayfish	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Blossom Hill Rd.)	DHS-3	53.103.F.87	6/30/87	0.36	-	Crayfish	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Blossom Hill Rd.)	DHS-3	53.104.F.87	6/30/87	0.50	-	Crayfish	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Blossom Hill Rd.)	DHS-3	53.105.F.87	6/30/87	0.26	-	Crayfish	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Blossom Hill Rd.)	DHS-3	53.108.F.87	6/30/87	0.28	-	Crayfish	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond)	TSMP-34	205.40.08	8/13/86	1.10	Fillet	Large Mouth Bass	14/39	SWRCB 1990
Guadalupe	Guadalupe R. (Percolation Pond)	TSMP-34	205.40.08	8/13/86	1.20	Fillet	Large Mouth Bass	14/40	SWRCB 1990
Guadalupe	Guadalupe R. (Percolation Pond)	TSMP-34	205.40.08	8/13/86	0.82	Fillet	Large Mouth Bass	16/62	SWRCB 1990
Guadalupe	Guadalupe R. (Percolation Pond)	TSMP-34	205.40.08	8/13/86	0.92	Fillet	Large Mouth Bass	15/50	SWRCB 1990
Guadalupe	Guadalupe R. (Percolation Pond)	TSMP-34	205.40.08	8/13/86	0.96	Fillet	Large Mouth Bass	13/39	SWRCB 1990
Guadalupe	Guadalupe R. (Percolation Pond)	TSMP-34	205.40.08	8/13/86	0.99	Fillet	Large Mouth Bass	14/42	SWRCB 1990
Guadalupe	Guadalupe R. (Percolation Pond)	TSMP-34	205.40.08	8/13/86	0.76	Fillet	Large Mouth Bass	14/40	SWRCB 1990
Guadalupe	Guadalupe R. (Percolation Pond)	TSMP-34	205.40.08	8/13/86	0.83	Fillet	Large Mouth Bass	14/41	SWRCB 1990
Guadalupe	Guadalupe R. (Percolation Pond)	TSMP-34	205.40.08	8/13/86	0.86	Fillet	Large Mouth Bass	14/41	SWRCB 1990
Guadalupe	Guadalupe R. (Percolation Pond)	TSMP-34	205.40.08	8/13/86	0.84	Fillet	Large Mouth Bass	15.4/66	SWRCB 1990
Guadalupe	Guadalupe R. (Percolation Pond)	TSMP-34	205.40.08	8/13/86	0.91	Fillet	Large Mouth Bass	18/92	SWRCB 1990
Guadalupe	Guadalupe R. (Percolation Pond)	TSMP-34	205.40.08	8/13/86	0.90	Fillet	Large Mouth Bass	15/65	SWRCB 1990
Guadalupe	Guadalupe R. (Percolation Pond)	TSMP-34	205.40.08	8/13/86	0.76	Fillet	Large Mouth Bass	16/80	SWRCB 1990
Guadalupe	Guadalupe R. (Percolation Pond)	TSMP-34	205.40.08	8/13/86	0.84	Fillet	Large Mouth Bass	15/57	SWRCB 1990
Guadalupe	Guadalupe R. (Percolation Pond)	TSMP-34	205.40.08	8/13/86	0.82	Fillet	Large Mouth Bass	13/36	SWRCB 1990
Guadalupe	Guadalupe R. (Percolation Pond)	TSMP-34	205.40.08	8/13/86	0.84	Fillet	Large Mouth Bass	-	SWRCB 1990
Guadalupe	Guadalupe R. (Percolation Pond)	TSMP-34	205.40.08	8/13/86	1.00	Fillet	Large Mouth Bass	14/56	SWRCB 1990
Guadalupe	Guadalupe R. (Percolation Pond)	TSMP-34	205.40.08	8/13/86	0.90	Fillet	Large Mouth Bass	14/50	SWRCB 1990
Guadalupe	Guadalupe R. (Percolation Pond)	TSMP-34	205.40.08	8/13/86	1.00	Fillet	Large Mouth Bass	13/36	SWRCB 1990
Guadalupe	Guadalupe R. (Percolation Pond)	TSMP-34	205.40.08	8/13/86	0.71	Fillet	Large Mouth Bass	14/44	SWRCB 1990
Guadalupe	Guadalupe R. (Percolation Pond)	TSMP-34	205.40.08	8/13/86	0.92	Fillet	Large Mouth Bass	14/48	SWRCB 1990

- Data not available

" " Analysis from same fish listed above (different tissue).

Sources: See summary table (Table 3).

Table 4. Mercury Concentrations in Fish Tissues from Santa Clara County Streams and Reservoirs continued.

Watershed	Location	WCC Map ID.	Station ID. No.	Date Collected	Conc. Hg (ppm)	Tissue	Fish Common Name	Length(cm)/ Weight(g)	Source
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.049.F.87	7/2/87	1.50	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.050.F.87	7/2/87	0.43	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.051.F.87	7/2/87	0.65	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.052.F.87	7/2/87	0.94	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.053.F.87	7/2/87	1.20	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.054.F.87	7/2/87	0.84	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.055.F.87	7/2/87	0.41	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.056.F.87	7/2/87	0.52	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.057.F.87	7/2/87	0.34	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.058.F.87	7/2/87	0.30	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.059.F.87	7/2/87	0.41	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.060.F.87	7/2/87	0.48	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.061.F.87	7/2/87	0.37	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.062.F.87	7/2/87	0.35	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.063.F.87	7/2/87	0.44	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.064.F.87	7/2/87	0.39	-	Blue Gill	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.065.F.87	7/2/87	0.97	-	Blue Gill	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.066.F.87	7/2/87	0.42	-	Blue Gill	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.067.F.87	7/2/87	0.43	-	Blue Gill	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.068.F.87	7/2/87	0.32	-	Blue Gill	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.069.F.87	7/2/87	0.34	-	Blue Gill	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.070.F.87	7/2/87	0.46	-	Blue Gill	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.071.F.87	7/2/87	0.41	-	Blue Gill	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.072.F.87	7/2/87	0.38	-	Blue Gill	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.073.F.87	7/2/87	0.43	-	Blue Gill	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.074.F.87	7/2/87	0.32	-	Blue Gill	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.075.F.87	7/2/87	0.36	-	Blue Gill	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.076.F.87	7/2/87	0.39	-	Blue Gill	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.077.F.87	7/2/87	0.29	-	Blue Gill	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.078.F.87	7/2/87	0.32	-	Blue Gill	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.079.F.87	7/2/87	0.48	-	Blue Gill	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.080.F.87	7/2/87	0.38	-	Blue Gill	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.081.F.87	7/2/87	0.36	-	Blue Gill	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.082.F.87	7/2/87	0.45	-	Blue Gill	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.083.F.87	6/30/87	0.68	-	Large Mouth Bass	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.084.F.87	6/30/87	0.64	-	Large Mouth Bass	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Percolation Pond NE)	DHS-4	53.085.F.87	6/30/87	0.74	-	Large Mouth Bass	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Howard St.)	TSMP-33	205.50.09	7/12/82	0.88	Fillet	Black Bullhead	-	SWRCB 1990
Guadalupe	Guadalupe R. (Howard St.)	TSMP-33	205.50.09	7/12/82	1.20	Fillet	Goldfish	-	SWRCB 1990
Guadalupe	Guadalupe R. (Howard St.)	TSMP-33	205.50.09	6/20/81	0.20	Fillet	Goldfish	-	SWRCB 1990
Guadalupe	Guadalupe R. (Howard St.)	TSMP-33	205.50.09	7/21/83	0.19	Fillet	Goldfish	-	SWRCB 1990
Guadalupe	Guadalupe R. (Howard St.)	TSMP-33	205.50.09	7/19/84	0.17	Fillet	Goldfish	-	SWRCB 1990

- Data not available

" " Analysis from same fish listed above (different tissue).

Sources: See summary table (Table 3).

Table 4. Mercury Concentrations in Fish Tissues from Santa Clara County Streams and Reservoirs continued.

Watershed	Location	WCC Map ID.	Station ID. No.	Date Collected	Conc. Hg (ppm)	Tissue	Fish Common Name	Length(cm)/ Weight(g)	Source
Guadalupe	Guadalupe R. (Highway 17)	DHS-5	53.003.F.87	7/1/87	0.54	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Highway 17)	DHS-5	53.004.F.87	7/1/87	0.48	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Highway 17)	DHS-5	53.005.F.87	7/1/87	0.44	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Highway 17)	DHS-5	53.006.F.87	7/1/87	0.46	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Highway 17)	DHS-5	53.007.F.87	7/1/87	0.46	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Highway 17)	DHS-5	53.008.F.87	7/1/87	0.30	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Highway 17)	DHS-5	53.009.F.87	7/1/87	0.33	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Highway 17)	DHS-5	53.011.F.87	7/1/87	0.28	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Highway 17)	DHS-5	53.012.F.87	7/1/87	0.38	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Highway 17)	DHS-5	53.013.F.87	7/1/87	0.23	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Highway 17)	DHS-5	53.014.F.87	7/1/87	0.26	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Highway 17)	DHS-5	53.015.F.87	7/1/87	0.18	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Highway 17)	DHS-5	53.016.F.87	7/1/87	0.38	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Highway 17)	DHS-5	53.017.F.87	7/1/87	0.20	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Highway 17)	DHS-5	53.018.F.87	7/1/87	0.24	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Highway 17)	DHS-5	53.019.F.87	7/1/87	0.28	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Highway 17)	DHS-5	53.020.F.87	7/1/87	0.28	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Highway 17)	DHS-5	53.021.F.87	7/1/87	0.52	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Highway 17)	DHS-5	53.022.F.87	7/1/87	0.42	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Highway 17)	DHS-5	53.023.F.87	7/1/87	0.30	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Montegue Expwy)	DHS-6	53.024.F.87	7/1/87	0.22	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Montegue Expwy)	DHS-6	53.025.F.87	7/1/87	0.34	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Montegue Expwy)	DHS-6	53.026.F.87	7/1/87	0.26	-	Sucker	-	DHS/DTSC-1988
Guadalupe	Guadalupe R. (Montegue Expwy)	DHS-6	53.027.F.87	7/1/87	0.36	-	Sucker	-	DHS/DTSC-1988
Guadalupe (Calero)	Calero Res.	SCC-8	400-71	Apr-71	0.85	Flesh	Catfish	22/132	SCC 70-71 & DHS/EES-87
Guadalupe (Calero)	Calero Res.	SCC-8	400-71	Apr-71	0.83	Flesh	Blue Gill	12/42	SCC 70-71 & DHS/EES-87
Guadalupe (Calero)	Calero Res.	SCC-8	400-71	Apr-71	5.10	Flesh	Large Mouth Bass	49/2270	SCC 70-71 & DHS/EES-87
Guadalupe (Calero)	Calero Res.	SCC-8	" "	" "	1.80	Gill	" "	" "	SCC 70-71 & DHS/EES-87
Guadalupe (Calero)	Calero Res.	SCC-8	400-71	Apr-71	1.30	Flesh	Large Mouth Bass	33/715	SCC 70-71 & DHS/EES-87
Guadalupe (Calero)	Calero Res.	SCC-8	" "	" "	1.40	Gill	" "	" "	SCC 70-71 & DHS/EES-87
Guadalupe (Calero)	Calero Res.	SCC-8	400-71	Apr-71	1.40	Flesh	Black Crappie	19/87	SCC 70-71 & DHS/EES-87
Guadalupe (Calero)	Calero Res.	SCC-8	" "	" "	0.46	Gill	" "	" "	SCC 70-71 & DHS/EES-87
Guadalupe (Calero)	Calero Res.	SCC-8	400-71	Apr-71	0.15	Flesh	Black Crappie	17/84	SCC 70-71 & DHS/EES-87
Guadalupe (Calero)	Calero Res.	SCC-8	400-71	Apr-71	1.10	Flesh	Carp	48/1810	SCC 70-71 & DHS/EES-87
Guadalupe (Calero)	Calero Res.	SCC-8	" "	" "	0.09	Gill	" "	" "	SCC 70-71 & DHS/EES-87
Guadalupe (Calero)	Calero Res.	SCC-8	400-71	Apr-71	1.40	Flesh	Carp	20/175	SCC 70-71 & DHS/EES-87
Guadalupe (Calero)	Calero Res.	SCC-8	" "	" "	0.08	Gill	" "	" "	SCC 70-71 & DHS/EES-87

- Data not available

" " Analysis from same fish listed above (different tissue).

Sources: See summary table (Table 3).

Table 4. Mercury Concentrations in Fish Tissues from Santa Clara County Streams and Reservoirs continued.

Watershed	Location	WCC Map ID.	Station ID. No.	Date Collected	Conc. Hg (ppm)	Tissue	Fish Common Name	Length(cm)/ Weight(g)	Source
Guadalupe (Calero)	Calero Res.	TSMP-27	205.40.16	8/12/86	1.40	Fillet	Black Crappie	24/258	SWRCB 1990
Guadalupe (Calero)	Calero Res.	TSMP-27	205.40.16	8/12/86	1.60	Fillet	Black Crappie	21/175	SWRCB 1990
Guadalupe (Calero)	Calero Res.	TSMP-27	205.40.16	8/12/86	1.90	Fillet	Black Crappie	22/229	SWRCB 1990
Guadalupe (Calero)	Calero Res.	TSMP-27	205.40.16	8/12/86	1.50	Fillet	Black Crappie	21/194	SWRCB 1990
Guadalupe (Calero)	Calero Res.	TSMP-27	205.40.16	8/12/86	1.20	Fillet	Black Crappie	21/162	SWRCB 1990
Guadalupe (Calero)	Calero Res.	TSMP-27	205.40.16	8/12/86	1.40	Fillet	Black Crappie	22/188	SWRCB 1990
Guadalupe (Calero)	Calero Res.	TSMP-27	205.40.16	8/12/86	1.50	Fillet	Black Crappie	20/163	SWRCB 1990
Guadalupe (Calero)	Calero Res.	TSMP-27	205.40.16	8/12/86	1.60	Fillet	Black Crappie	21/187	SWRCB 1990
Guadalupe (Calero)	Calero Res.	TSMP-27	205.40.16	8/12/86	1.10	Fillet	Black Crappie	Composite	SWRCB 1990
Guadalupe (Calero)	Calero Res.	TSMP-27	205.40.16	8/12/86	1.40	Fillet	Black Crappie	21/158	SWRCB 1990
Guadalupe (Calero)	Calero Res.	TSMP-27	205.40.16	8/12/86	1.60	Fillet	Black Crappie	21/166	SWRCB 1990
Guadalupe (Calero)	Calero Res.	TSMP-27	205.40.16	8/12/86	2.90	Fillet	Large Mouth Bass	44/1680	SWRCB 1990
Guadalupe (Calero)	Calero Res.	TSMP-27	205.40.16	8/12/86	3.10	Fillet	Large Mouth Bass	43/1680	SWRCB 1990
Guadalupe (Calero)	Calero Res.	TSMP-27	205.40.16	8/12/86	1.60	Fillet	Large Mouth Bass	29/480	SWRCB 1990
Guadalupe (Calero)	Calero Res.	TSMP-27	205.40.16	8/12/86	2.80	Fillet	Large Mouth Bass	41/1399	SWRCB 1990
Guadalupe (Calero)	Calero Res.	TSMP-27	205.40.16	8/12/86	1.70	Fillet	Large Mouth Bass	39/943	SWRCB 1990
Guadalupe (Calero)	Calero Res.	TSMP-27	205.40.16	8/12/86	2.00	Fillet	Large Mouth Bass	34/728	SWRCB 1990
Guadalupe (Calero)	Calero Res.	TSMP-27	205.40.16	8/12/86	1.90	Fillet	Large Mouth Bass	36/891	SWRCB 1990
Guadalupe (Calero)	Calero Res.	TSMP-27	205.40.16	8/12/86	2.00	Fillet	Large Mouth Bass	Composite	SWRCB 1990
Guadalupe (Calero)	Calero Res.	TSMP-27	205.40.16	8/12/86	2.80	Fillet	Large Mouth Bass	45/1858	SWRCB 1990
Guadalupe (Calero)	Calero Res.	TSMP-27	205.40.16	8/12/86	1.80	Fillet	Large Mouth Bass	37/957	SWRCB 1990
Guadalupe (Calero)	Calero Res.	TSMP-27	205.40.16	8/12/86	1.90	Fillet	Large Mouth Bass	38/1181	SWRCB 1990
Guadalupe (Lexington)	Lexington Res.	SCC-9	413-71	May-71	0.04	Flesh	Blue Gill	22/234	SCC 70-71
Guadalupe (Lexington)	Lexington Res.	SCC-9	413-71	May-71	0.05	Flesh	Blue Gill	17/121	SCC 70-71
Guadalupe (Lexington)	Lexington Res.	SCC-9	413-71	May-71	0.06	Flesh	Blue Gill	13/51	SCC 70-71
Guadalupe (Lexington)	Lexington Res.	SCC-9	413-71	May-71	0.32	Flesh	Hitch	17/68	SCC 70-71
Guadalupe (Lexington)	Lexington Res.	SCC-9	413-71	May-71	0.08	Flesh	Black Bullhead	25/264	SCC 70-71
Guadalupe (Lexington)	Lexington Res.	SCC-9	" "	" "	0.00	Gill	" "	" "	SCC 70-71
Guadalupe (Lexington)	Lexington Res.	SCC-9	413-71	May-71	0.87	Flesh	Large Mouth Bass	42/1400	SCC 70-71
Guadalupe (Lexington)	Lexington Res.	SCC-9	" "	" "	0.14	Gill	" "	" "	SCC 70-71
Guadalupe (Lexington)	Lexington Res.	SCC-9	413-71	May-71	0.82	Flesh	Large Mouth Bass	30/410	SCC 70-71
Guadalupe (Lexington)	Lexington Res.	SCC-9	" "	" "	0.00	Gill	" "	" "	SCC 70-71
Guadalupe (Lexington)	Lexington Res.	SCC-9	413-71	May-71	0.56	Flesh	Large Mouth Bass	24/200	SCC 70-71
Guadalupe (Lexington)	Lexington Res.	SCC-9	" "	" "	0.07	Gill	" "	" "	SCC 70-71
Guadalupe (Lexington)	Lexington Res.	SCC-9	413-71	May-71	0.63	Flesh	Large Mouth Bass	21/135	SCC 70-71
Guadalupe (Lexington)	Lexington Res.	SCC-9	413-71	May-71	0.44	Flesh	Large Mouth Bass	14/38	SCC 70-71
Guadalupe (Lexington)	Lexington Res.	SCC-9	413-71	May-71	0.43	Flesh	Black Crappie	21/158	SCC 70-71
Guadalupe (Lexington)	Los Gatos Cr. (Camden Perc. Pond)	SCC-10	417-71	May-71	0.20	Flesh	Goldfish	20/307	SCC 70-71
Guadalupe (Lexington)	Los Gatos Cr. (Camden Perc. Pond)	SCC-10	417-71	May-71	0.24	Flesh	Blue Gill	18/130	SCC 70-71
Guadalupe (Lexington)	Los Gatos Cr. (Camden Perc. Pond)	SCC-10	417-71	May-71	0.29	Flesh	White Catfish	21/110	SCC 70-71
Guadalupe (Lexington)	Los Gatos Cr. (Camden Perc. Pond)	SCC-10	417-71	May-71	1.20	Flesh	Large Mouth Bass	29/344	SCC 70-71
Guadalupe (Lexington)	Los Gatos Cr. (Camden Perc. Pond)	SCC-10	417-71	May-71	0.33	Flesh	Black Crappie	19/120	SCC 70-71

- Data not available

" " Analysis from same fish listed above (different tissue).

Sources: See summary table (Table 3).

Table 4. Mercury Concentrations in Fish Tissues from Santa Clara County Streams and Reservoirs concluded.

Watershed	Location	WCC Map ID.	Station ID. No.	Date Collected	Conc. Hg (ppm)	Tissue	Fish Common Name	Length(cm)/ Weight(g)	Source
Coyote	Coyote Res.	SCC-11	463-71	Jul-71	0.01	Flesh	Rainbow Trout	18/83	SCC 70-71
Coyote	Coyote Res.	SCC-11	435	Jun-71	0.15	Flesh	Blue Gill	9/43	SCC 70-71
Coyote	Coyote Res.	SCC-11	435	Jun-71	0.22	Flesh	Blue Gill	8/24	SCC 70-71
Coyote	Coyote Res.	SCC-11	435-71	Jun-71	0.48	Flesh	Hitch	20/155	SCC 70-71
Coyote	Coyote Res.	SCC-11	435-71	Jun-71	0.90	Flesh	Large Mouth Bass	32/1200	SCC 70-71
Coyote	Coyote Res.	SCC-11	435-71	Jun-71	0.50	Flesh	Large Mouth Bass	16/113	SCC 70-71
Coyote	Coyote Res.	SCC-11	435-71	Jun-71	0.26	Flesh	Large Mouth Bass	10/27	SCC 70-71
Coyote	Coyote Res.	SCC-11	435-71	Jun-71	0.28	Flesh	Pumpkin Seed	14/135	SCC 70-71
Coyote	Coyote Res.	SCC-11	435-71	Jun-71	0.30	Flesh	Black Crappie	12/50	SCC 70-71
Coyote	Coyote Res.	TSMP-30	205.30.37	8/30/83	0.51	Fillet	Large Mouth Bass	-	SWRCB 1990
Coyote	Anderson Res.	SCC-12	424-71	May-71	0.22	Flesh	Monterey Sucker	33/603	SCC 70-71
Coyote	Anderson Res.	SCC-12	424-71	May-71	0.41	Flesh	Large Mouth Bass	22/178	SCC 70-71
Coyote	Anderson Res.	SCC-12	424-71	May-71	0.24	Flesh	Large Mouth Bass	16/76	SCC 70-71
Coyote	Anderson Res.	SCC-12	424-71	May-71	0.24	Flesh	Large Mouth Bass	16/76	SCC 70-71
Coyote	Anderson Res.	SCC-12	424-71???	Jun-71	0.11	Flesh	Pumpkin Seed	12/51	SCC 70-71
Coyote	Anderson Res.	SCC-12	424-71	May-71	0.24	Flesh	Black Crappie	18/89	SCC 70-71
Coyote	Anderson Res.	SCC-12	424-71	May-71	0.34	Flesh	Carp	51/2150	SCC 70-71
Coyote	Anderson Res.	TSMP-25	205.30.30	11/20/82	0.93	Fillet	Large Mouth Bass	-	SWRCB 1990
Coyote	Coyote Cr. (U.S. Montague Expwy)	TSMP-29	205.30.07	6/20/81	0.09	Fillet	Goldfish	-	SWRCB 1990
Coyote	Coyote Cr. (U.S. Montague Expwy)	TSMP-29	205.30.07	7/12/82	0.19	Fillet	Goldfish	-	SWRCB 1990
Coyote	Coyote Cr. (U.S. Montague Expwy)	TSMP-29	205.30.07	7/21/83	0.21	Fillet	Goldfish	-	SWRCB 1990
Coyote	Coyote Cr. (U.S. Montague Expwy)	TSMP-29	205.30.07	7/19/84	0.11	Fillet	Goldfish	-	SWRCB 1990
Coyote	Coyote Cr. (Browkaw Rd.)	TSMP-28	205.30.08	7/3/87	< 0.02	Whole	Flathead Minnow	-	SWRCB 1990
Stevens Creek	Stevens Cr. Res.	SCC-13	416-71	May-71	0.38	Flesh	Monterey Sucker	41/1000	SCC 70-71
Stevens Creek	Stevens Cr. Res.	SCC-13	416-71	May-71	0.13	Flesh	Monterey Sucker	30/407	SCC 70-71
Stevens Creek	Stevens Cr. Res.	SCC-13	416-71	May-71	0.33	Flesh	Goldfish	28/540	SCC 70-71
Stevens Creek	Stevens Cr. Res.	SCC-13	416-71	May-71	0.12	Flesh	Blue Gill	8/10	SCC 70-71
Stevens Creek	Stevens Cr. Res.	SCC-13	416-71	May-71	0.31	Flesh	Blue Gill	14/58	SCC 70-71
Stevens Creek	Stevens Cr. Res.	SCC-13	416-71	May-71	0.38	Flesh	Blue Gill	18/136	SCC 70-71
Stevens Creek	Stevens Cr. Res.	SCC-13	416-71	May-71	1.40	Flesh	Large Mouth Bass	42/2050	SCC 70-71
Stevens Creek	Stevens Cr. Res.	SCC-13	416-71	May-71	0.76	Flesh	Large Mouth Bass	22/136	SCC 70-71
Stevens Creek	Stevens Cr. Res.	SCC-13	416-71	May-71	0.46	Flesh	Large Mouth Bass	17/61	SCC 70-71
Stevens Creek	Stevens Cr. Res.	SCC-13	416-71	May-71	0.55	Flesh	Large Mouth Bass	12/28	SCC 70-71
Stevens Creek	Stevens Cr. Res.	SCC-13	416-71	May-71	0.46	Flesh	Black Crappie	15/56	SCC 70-71
Stevens Creek	Calabazas Cr. (down stream Tazman Dr.)	TSMP-26	205.50.07	7/2/87	0.08	Whole	Threespine Stickleback	-	SWRCB 1990
Stevens Creek	Calabazas Cr. (down stream Tazman Dr.)	TSMP-26	205.50.07	7/2/87	0.07	Whole	Yellowfin Goby	-	SWRCB 1990

- Data not available

" " Analysis from same fish listed above (different tissue).

Sources: See summary table (Table 3).

Table 5. Stream Sediment Data for Mercury in Santa Clara County

Watershed (Subwatershed)	Location	WCC Map ID & Station ID	Date Collected	Mercury Conc. (mg/kg)	Dry/Wet Wt.	Source
Guadalupe (Almaden)	Alamitos Cr. (Alamitos & Bertram Rds.)	7S	Jun-71	22.65	Dry	Stanford
Guadalupe (Almaden)	Alamitos Cr. (Hicks & Alamitos Rds.)	8S	Jun-71	24.70	Dry	Stanford
Guadalupe (Almaden)	Alamitos Cr. (Alamitos & Bertram Rds.)	NA-21	1972	110	Dry	Stanford
Guadalupe (Almaden)	Alamitos Cr. (Alamitos & Bertram Rds.)	NA-22	1972	61.5	Dry	Stanford
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	220	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	140	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	190	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	29	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	110	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	130	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	180	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	71	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	590	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	51	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	34	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	180	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	9.4	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	64	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	270	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	33	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	160	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	85	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	110	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	240	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	2	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	52	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	140	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	110	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	210	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	180	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	730	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	98	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	150	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	180	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	120	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	130	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	340	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	98	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	65	Wet	Dames & Moore
Guadalupe (Almaden)	Deep Gulch Creek (intermittent cr.)	IS-1	Aug-3, 4-1989	120	Wet	Dames & Moore

Table 5. Stream Sediment Data for Mercury in Santa Clara County

Watershed (Subwatershed)	Location	WCC Map ID & Station ID	Date Collected	Mercury Conc. (mg/kg)	Dry/Wet Wt.	Source
Guadalupe (Almaden)	Jaques Gorge (intermittent cr.)	IS-2	Oct-21 to 31-1988	52	Wet	Dames & Moore
Guadalupe (Almaden)	Jaques Gorge (intermittent cr.)	IS-2	Oct-21 to 31-1988	21	Wet	Dames & Moore
Guadalupe (Almaden)	Jaques Gorge (intermittent cr.)	IS-2	Oct-21 to 31-1988	170	Wet	Dames & Moore
Guadalupe (Almaden)	Jaques Gorge (intermittent cr.)	IS-2	Oct-21 to 31-1988	18	Wet	Dames & Moore
Guadalupe (Almaden)	Jaques Gorge (intermittent cr.)	IS-2	Oct-21 to 31-1988	29	Wet	Dames & Moore
Guadalupe (Almaden)	Jaques Gorge (intermittent cr.)	IS-2	Oct-21 to 31-1988	180	Wet	Dames & Moore
Guadalupe (Almaden)	Jaques Gorge (intermittent cr.)	IS-2	Oct-21 to 31-1988	60	Wet	Dames & Moore
Guadalupe (Almaden)	Jaques Gorge (intermittent cr.)	IS-2	Oct-21 to 31-1988	31	Wet	Dames & Moore
Guadalupe (Almaden)	Jaques Gorge (intermittent cr.)	IS-2	Oct-21 to 31-1988	56	Wet	Dames & Moore
Guadalupe (Almaden)	Jaques Gorge (intermittent cr.)	IS-2	Oct-21 to 31-1988	59	Wet	Dames & Moore
Guadalupe (Almaden)	Jaques Gorge (intermittent cr.)	IS-2	Oct-21 to 31-1988	70	Wet	Dames & Moore
Guadalupe (Almaden)	Jaques Gorge (intermittent cr.)	IS-2	Oct-21 to 31-1988	50	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	13	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	44	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	70	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	23	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	230	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	40	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	5.1	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	9.1	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	61	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	62	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	74	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	8.5	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	74	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	55	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	82	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	57	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	31	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	17	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	6.7	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	39	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	27	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	30	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	32	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	31	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	51	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	20	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	52	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	31	Wet	Dames & Moore

Table 5. Stream Sediment Data for Mercury in Santa Clara County

Watershed (Subwatershed)	Location	WCC Map ID & Station ID	Date Collected	Mercury Conc. (mg/kg)	Dry/Wet Wt.	Source
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	29	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	69	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	32	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	17	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	8.1	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	39	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	23	Wet	Dames & Moore
Guadalupe (Almaden)	Mockingbird Hill (intermittent cr.)	IS-5	Jun-1, 2-1989	16	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	1.9	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	0.84	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	1.1	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	1.3	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	0.67	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	1.1	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	1.6	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	1.2	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	0.94	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	1.8	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	0.62	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	0.32	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	1.6	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	0.72	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	1.7	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	0.74	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	0.9	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	1.1	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	1.5	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	1.3	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	1.3	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	0.87	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	0.97	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	1.3	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	1.1	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	1.5	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	1.3	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	0.84	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	0.81	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	1.3	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	0.87	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	1.4	Wet	Dames & Moore

Table 5. Stream Sediment Data for Mercury in Santa Clara County

Watershed (Subwatershed)	Location	WCC Map ID & Station ID	Date Collected	Mercury Conc. (mg/kg)	Dry/Wet Wt.	Source
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	0.72	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	0.86	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	0.8	Wet	Dames & Moore
Guadalupe (Almaden)	N. of Cape Horn Pass (intermittent cr.)	IS-6	Aug-24, Sept-1-1989	0.71	Wet	Dames & Moore
Guadalupe (Almaden)	Alamitos Creek (Hacienda Furnace area)	CS-1	Nov-17 to 27-1989	120	Wet	Dames & Moore
Guadalupe (Almaden)	Alamitos Creek (Hacienda Furnace area)	CS-1	Nov-17 to 27-1989	140	Wet	Dames & Moore
Guadalupe (Almaden)	Alamitos Creek (Hacienda Furnace area)	CS-1	Nov-17 to 27-1989	190	Wet	Dames & Moore
Guadalupe (Almaden)	Alamitos Creek (Hacienda Furnace area)	CS-1	Nov-17 to 27-1989	340	Wet	Dames & Moore
Guadalupe (Almaden)	Alamitos Creek (Hacienda Furnace area)	CS-1	Nov-17 to 27-1989	96	Wet	Dames & Moore
Guadalupe (Almaden)	Alamitos Creek (Hacienda Furnace area)	CS-1	Nov-17 to 27-1989	110	Wet	Dames & Moore
Guadalupe (Almaden)	Alamitos Creek (Hacienda Furnace area)	CS-1	Nov-17 to 27-1989	69	Wet	Dames & Moore
Guadalupe (Almaden)	Alamitos Creek (Hacienda Furnace area)	CS-1	Nov-17 to 27-1989	72	Wet	Dames & Moore
Guadalupe (Almaden)	Alamitos Creek (Hacienda Furnace area)	CS-1	Nov-17 to 27-1989	12	Wet	Dames & Moore
Guadalupe (Almaden)	Alamitos Creek (Hacienda Furnace area)	CS-1	Nov-17 to 27-1989	67	Wet	Dames & Moore
Guadalupe (Almaden)	Alamitos Creek (Hacienda Furnace area)	CS-1	Nov-17 to 27-1989	5	Wet	Dames & Moore
Guadalupe (Almaden)	Alamitos Creek (Hacienda Furnace area)	CS-1	Nov-17 to 27-1989	11	Wet	Dames & Moore
Guadalupe (Almaden)	Alamitos Creek (Hacienda Furnace area)	CS-1	Nov-17 to 27-1989	37	Wet	Dames & Moore
Guadalupe (Calero)	Almaden-Calero Canal	AC-1	12/9/80	0.85	Dry	USGS-SCVWD
Guadalupe (Calero)	Almaden-Calero Canal	AC-1	4/7/81	0.3	Dry	USGS-SCVWD
Guadalupe (Calero)	Almaden-Calero Canal	AC-1	4/20/82	0.49	Dry	USGS-SCVWD
Guadalupe (Calero)	Almaden-Calero Canal	AC-1	6/15/82	0.22	Dry	USGS-SCVWD
Guadalupe (Calero)	Almaden-Calero Canal	AC-1	12/7/82	0.14	Dry	USGS-SCVWD
Guadalupe (Calero)	Arroyo-Calero Creek	NA-23	1972	2.7	Dry	Stanford
Guadalupe (Guadalupe)	Guadalupe Creek (above res.)	9S	Jun-71	9.65	Dry	Stanford
Guadalupe (Guadalupe)	Guadalupe Creek (above res.)	10S	Jun-71	40.60	Dry	Stanford
Guadalupe (Guadalupe)	Guadalupe Creek (200 ft. below dam)	11S	Jun-71	7.55	Dry	Stanford
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	5.8	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	5.9	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	5.7	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	36	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	96	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	14	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	6.9	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	19	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	9.7	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	8.1	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	2.8	Wet	Dames & Moore

Table 5. Stream Sediment Data for Mercury in Santa Clara County

Watershed (Subwatershed)	Location	WCC Map ID & Station ID	Date Collected	Mercury Conc. (mg/kg)	Dry/Wet Wt.	Source
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	3.1	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	58	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	11	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	50	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	67	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	63	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	4.7	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	22	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	26	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	35	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	16	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	5.5	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	7.6	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	3.4	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	5.8	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	7.8	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	6.8	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	20	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	86	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	6.1	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	82	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	19	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	130	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	18	Wet	Dames & Moore
Guadalupe (Guadalupe)	N Los Capitancillos Creek	IS-3	Aug-10, 15-1989	49	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	45	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	81	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	50	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	310	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	76	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	100	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	62	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	23	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	54	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	67	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	19	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	99	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	62	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	26	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	220	Wet	Dames & Moore

Table 5. Stream Sediment Data for Mercury in Santa Clara County

Watershed (Subwatershed)	Location	WCC Map ID & Station ID	Date Collected	Mercury Conc. (mg/kg)	Dry/Wet Wt.	Source
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	75	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	42	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	35	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	73	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	54	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	18	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	19	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	81	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	82	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	25	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	68	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	84	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	77	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	47	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	110	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	61	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	20	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	8.5	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	14	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	17	Wet	Dames & Moore
Guadalupe (Guadalupe)	N. end of park, McAbee Rd Access (intermittent cr.)	IS-4	Aug-8 to 10-1989	8.8	Wet	Dames & Moore
Guadalupe (Guadalupe)	Guadalupe Creek @ Guad/Hicks Rd.	11167500	2/19/80	0.08	Dry	USGS
Guadalupe (Guadalupe)	Guadalupe Creek @ Guad/Hicks Rd.	11167500	9/10/80	0.07	Dry	USGS 79-81
Guadalupe (Guadalupe)	Guadalupe Creek @ Guad/Hicks Rd.	11167500	3/27/81	0.04	Dry	USGS 79-81
Guadalupe (Guadalupe)	Guadalupe Creek @ Guad/Hicks Rd.	11167500	9/1/81	1.2	Dry	USGS 79-81
Guadalupe (Guadalupe)	Guadalupe Creek @ Guad/Hicks Rd.	11167500	1/5/82	7.2	Dry	USGS-SCVWD
Guadalupe (Guadalupe)	Guadalupe Creek @ Guad/Hicks Rd.	11167500	9/8/82	2.5	Dry	USGS-SCVWD
Guadalupe (Guadalupe)	Guadalupe Creek @ Guad/Hicks Rd.	11167500	1/26/83	1.4	Dry	USGS
Guadalupe (Guadalupe)	Guadalupe Creek @ Guad/Hicks Rd.	11167500	8/30/83	1.1	Dry	USGS-SCVWD
Guadalupe (Guadalupe)	Guadalupe Creek @ Guad/Hicks Rd.	11167500	8/27/84	3.9	Dry	USGS
Guadalupe (Guadalupe)	Guadalupe Creek @ Guad/Hicks Rd.	11167500	2/8/85	0.6	Dry	USGS
Guadalupe (Guadalupe)	Guadalupe Creek @ Guad/Hicks Rd.	11167500	9/11/85	3.8	Dry	USGS
Guadalupe (Guadalupe)	Guadalupe Creek @ Guad/Hicks Rd.	11167500	7/22/86	0.67	Dry	USGS-SCVWD
Guadalupe (Guadalupe)	Guadalupe Creek @ Guad/Hicks Rd.	11167500	8/11/87	3.9	Dry	USGS-SCVWD
Guadalupe (Guadalupe)	Guadalupe Creek @ Guad/Hicks Rd.	11167500	8/17/88	70	Dry	USGS-SCVWD
Guadalupe (Guadalupe)	Guadalupe Creek @ Guad/Hicks Rd.	11167500	7/25/89	10	Dry	USGS-SCVWD
Guadalupe (Lexington)	Los Gatos Ck @ Lark Ave	11168660	2/20/80	0.03	Dry	USGS
Guadalupe (Lexington)	Los Gatos Ck @ Lark Ave	11168660	9/10/80	0.04	Dry	USGS
Guadalupe (Lexington)	Los Gatos Ck @ Lark Ave	11168660	3/27/81	0.90	Dry	USGS
Guadalupe (Lexington)	Los Gatos Ck @ Lark Ave	11168660	9/1/81	0.06	Dry	USGS

Table 5. Stream Sediment Data for Mercury in Santa Clara County

Watershed (Subwatershed)	Location	WCC Map ID & Station ID	Date Collected	Mercury Conc. (mg/kg)	Dry/Wet Wt.	Source
Guadalupe (Lexington)	Los Gatos Ck @ Lark Ave	11168660	1/5/82	0.08	Dry	USGS
Guadalupe (Lexington)	Los Gatos Ck @ Lark Ave	11168660	9/8/82	0.05	Dry	USGS
Guadalupe (Lexington)	Los Gatos Ck @ Lark Ave	11168660	1/27/83	0.05	Dry	USGS
Guadalupe (Lexington)	Los Gatos Ck @ Lark Ave	11168660	8/30/83	0.06	Dry	USGS
Guadalupe (Lexington)	Los Gatos Ck @ Lark Ave	11168660	8/27/84	1.1	Dry	USGS
Guadalupe (Lexington)	Los Gatos Ck @ Lark Ave	11168660	2/8/85	1.5	Dry	USGS
Guadalupe (Lexington)	Los Gatos Ck @ Lark Ave	11168660	9/11/85	0.2	Dry	USGS
Guadalupe (Lexington)	Los Gatos Ck @ Lark Ave	11168660	7/22/86	0.7	Dry	USGS-SCVWD
Guadalupe (Lexington)	Los Gatos Ck @ Lark Ave	11168660	8/11/87	0.8	Dry	USGS-SCVWD
Guadalupe (Lexington)	Los Gatos Ck @ Lark Ave	11168660	8/17/88	0.1	Dry	USGS-SCVWD
Guadalupe (Lexington)	Los Gatos Ck @ Lark Ave	11168660	7/25/89	0.2	Dry	USGS-SCVWD
Guadalupe (Lexington)	Los Gatos Cr. @ Los Gatos	11168000	9/10/80	0.02	Dry	USGS 79-81
Guadalupe (Lexington)	Los Gatos Cr. @ Los Gatos	11168000	3/27/81	0.04	Dry	USGS 79-81
Guadalupe (Lexington)	Los Gatos Cr. @ Los Gatos	11168000	9/1/81	0.02	Dry	USGS 79-81
Guadalupe (Lexington)	Los Gatos Cr. @ Los Gatos	11168000	1/26/83	0.05	Dry	USGS
Guadalupe (Lexington)	Los Gatos Cr. @ Los Gatos	11168000	8/30/83	0.06		USGS-SCVWD
Guadalupe (Lexington)	Los Gatos Cr. @ Los Gatos	11168000	8/27/84	0.69	Dry	USGS
Guadalupe (Lexington)	Los Gatos Cr. @ Los Gatos	11168000	2/8/85	0.05	Dry	USGS
Guadalupe (Lexington)	Los Gatos Cr. @ Los Gatos	11168000	9/11/85	0.2	Dry	USGS
Guadalupe (Lexington)	Los Gatos Ck @ Lincoln Ave	11168800	2/20/80	0.03	Dry	USGS
Guadalupe (Lexington)	Los Gatos Ck @ Lincoln Ave	11168800	3/27/81	0.06	Dry	USGS 79-81
Guadalupe (Lexington)	Los Gatos Ck @ Lincoln Ave	11168800	9/1/81	0.03	Dry	USGS 79-81
Guadalupe (Lexington)	Los Gatos Ck @ Lincoln Ave	11168800	1/5/82	0.07	Dry	USGS
Guadalupe (Lexington)	Los Gatos Ck @ Lincoln Ave	11168800	9/8/82	0.03	Dry	USGS
Guadalupe (Lexington)	Los Gatos Ck @ Lincoln Ave	11168800	1/27/83	0.06	Dry	USGS
Guadalupe (Lexington)	Los Gatos Ck @ Lincoln Ave	11168800	8/30/83	0.04	Dry	USGS
CONFLUENCE OF ALMADEN AND CALERO CATCHMENTS						
Guadalupe	Alamitos Creek	NA-24	1971	59.0	Dry	Stanford
Guadalupe	Alamitos Ck near New Almaden	11166900	2/8/85	1.5	Dry	USGS
Guadalupe	Alamitos Ck near New Almaden	11166900	9/11/85	57.0	Dry	USGS-SCVWD
Guadalupe	Alamitos Ck near New Almaden	11166900	8/11/87	2.6	Dry	USGS-SCVWD
Guadalupe	Alamitos Ck near New Almaden	11166900	8/17/88	95.0	Dry	USGS-SCVWD
Guadalupe	Alamitos Ck near New Almaden	11166900	7/25/89	44.0	Dry	USGS-SCVWD

Table 5. Stream Sediment Data for Mercury in Santa Clara County

Watershed (Subwatershed)	Location	WCC Map ID & Station ID	Date Collected	Mercury Conc. (mg/kg)	Dry/Wet Wt.	Source
CONFLUENCE OF ALMADEN, CALERO AND GUADALUPE CATCHMENTS						
Guadalupe	Guadalupe R @ Alamitos Recharge Facil.	11167572	5/23/79	7.2	Dry	USGS 79-81
Guadalupe	Guadalupe R @ Alamitos Recharge Facil.	11167572	2/19/80	5.8	Dry	USGS 79-81
Guadalupe	Guadalupe R @ Alamitos Recharge Facil.	11167572	9/10/80	3.5	Dry	USGS 79-81
Guadalupe	Guadalupe R @ Alamitos Recharge Facil.	11167572	3/27/81	0.06	Dry	USGS 79-81
Guadalupe	Guadalupe R @ Alamitos Recharge Facil.	11167572	9/1/81	12	Dry	USGS 79-81
Guadalupe	Guadalupe R @ Alamitos Recharge Facil.	11167572	1/5/82	12	Dry	USGS-SCVWD
Guadalupe	Guadalupe R @ Alamitos Recharge Facil.	11167572	9/8/82	0.05	Dry	USGS-SCVWD
Guadalupe	Guadalupe R @ Alamitos Recharge Facil.	11167572	1/26/83	4.2	Dry	USGS
Guadalupe	Guadalupe R @ Alamitos Recharge Facil.	11167572	8/30/83	1.0	Dry	USGS-SCVWD
Guadalupe	Guadalupe R @ Alamitos Recharge Facil.	11167572	8/27/84	2.1	Dry	USGS
Guadalupe	Guadalupe R @ Alamitos Recharge Facil.	11167572	2/9/85	0.3	Dry	USGS
Guadalupe	Guadalupe R @ Alamitos Recharge Facil.	11167572	9/11/85	4	Dry	USGS
Guadalupe	Guadalupe R @ Alamitos Recharge Facil.	11167572	7/22/86	25	Dry	USGS-SCVWD
Guadalupe	Guadalupe R @ Alamitos Recharge Facil.	11167572	8/11/87	8.5	Dry	USGS-SCVWD
Guadalupe	Guadalupe R @ Alamitos Recharge Facil.	11167572	7/25/89	13	Dry	USGS-SCVWD
Guadalupe	Guadalupe R @ Alamitos Recharge Facil.	11167572	7/25/89	17	Dry	USGS-SCVWD
CONFLUENCE OF ALMADEN, CALERO, GUADALUPE AND LEXINGTON CATCHMENTS						
Guadalupe	Guadalupe River	S-3	3/30/88	4.1	Dry	WCC
Guadalupe	Guadalupe River	S-3	5/11/88	0.74	Dry	WCC
Guadalupe	Guadalupe River	S-3	8/22/88	4.7	Dry	WCC
Guadalupe	Guadalupe River	S-3	8/22/88	4.4	Dry	WCC
Guadalupe	Guadalupe River	S-3	12/12/88	3.6	Dry	WCC
Guadalupe	Guadalupe River	S-3	12/12/88	2.6	Dry	WCC
Guadalupe	Guadalupe River	S-3	12/12/88	2.7	Dry	WCC
CONFLUENCE OF ALMADEN, CALERO, GUADALUPE AND LEXINGTON CATCHMENTS (CONTINUED)						
Guadalupe	Guadalupe R @ San Jose/St. John's	11169000	2/19/80	1.7	Dry	USGS
Guadalupe	Guadalupe R @ San Jose/St. John's	11169000	9/10/80	10	Dry	USGS
Guadalupe	Guadalupe R @ San Jose/St. John's	11169000	3/27/81	0.40	Dry	USGS
Guadalupe	Guadalupe R @ San Jose/St. John's	11169000	9/1/81	0.36	Dry	USGS
Guadalupe	Guadalupe R @ San Jose/St. John's	11169000	1/5/82	1.7	Dry	USGS
Guadalupe	Guadalupe R @ San Jose/St. John's	11169000	9/8/82	0.08	Dry	USGS
Guadalupe	Guadalupe R @ San Jose/St. John's	11169000	1/27/83	3.5	Dry	USGS
Guadalupe	Guadalupe R @ San Jose/St. John's	11169000	8/30/83	0.03	Dry	USGS
Guadalupe	Guadalupe R @ San Jose/St. John's	11169000	8/27/84	0.9	Dry	USGS
Guadalupe	Guadalupe R @ San Jose/St. John's	11169000	2/9/85	0.3	Dry	USGS
Guadalupe	Guadalupe R @ San Jose/St. John's	11169000	3/11/85	8.0	Dry	USGS-SCVWD

Table 5. Stream Sediment Data for Mercury in Santa Clara County

Page 9 of 10

Watershed (Subwatershed)	Location	WCC Map ID & Station ID	Date Collected	Mercury Conc. (mg/kg)	Dry/Wet Wt.	Source
Guadalupe	Guadalupe R @ San Jose/St. John's	11169000	9/11/85	1.7	Dry	USGS
Guadalupe	Guadalupe R @ San Jose/St. John's	11169000	7/22/86	0.1	Dry	USGS-SCVWD
Guadalupe	Guadalupe R @ San Jose/St. John's	11169000	8/11/87	1.7	Dry	USGS-SCVWD
Guadalupe	Guadalupe R @ San Jose/St. John's	11169000	8/17/88	4.0	Dry	USGS-SCVWD
Guadalupe	Guadalupe R @ San Jose/St. John's	11169000	7/25/89	3.8	Dry	USGS-SCVWD
Coyote	Coyote Creek	Cochran	May-78	1.1	Dry	WCC-Coyote
Coyote	Coyote Creek	Miramonte	May-78	8.4	Dry	WCC-Coyote
Coyote	Coyote Creek	Matcalfe	May-78	1.6	Dry	WCC-Coyote
Coyote	Coyote Creek	Derbe	May-78	6.6	Dry	WCC-Coyote
Coyote	Coyote Creek	William	May-78	4.3	Dry	WCC-Coyote
Coyote	Coyote Creek	Tripp	May-78	13	Dry	WCC-Coyote
Coyote	Coyote Creek @ Montague Expwy.	S-4	3/30/88	0.1	Dry	WCC
Coyote	Coyote Creek (lab duplicate of above)	S-4	3/30/88	0.2	Dry	WCC
Coyote	Coyote Creek @ Montague Expwy.	S-4	5/11/88	0.49	Dry	WCC
Coyote	Coyote Creek (field duplicate of above)	S-4	5/11/88	0.23	Dry	WCC
Coyote	Coyote Creek @ Montague Expwy.	S-4	8/22/88	0.17	Dry	WCC
Coyote	Coyote Creek @ Montague Expwy.	S-4	12/12/88	0.45	Dry	WCC
Coyote	Coyote Creek @ Coyote Rd.	11171500	2/20/80	0.08	Dry	USGS
Coyote	Coyote Creek @ Coyote Rd.	11171500	9/10/80	0.14	Dry	USGS
Coyote	Coyote Creek @ Coyote Rd.	11171500	3/28/81	1	Dry	USGS
Coyote	Coyote Creek @ Coyote Rd.	11171500	9/2/81	0.05	Dry	USGS
Coyote	Coyote Creek @ Coyote Rd.	11171500	9/7/82	0.05	Dry	USGS
Coyote	Coyote Creek @ Coyote Rd.	11171500	1/28/83	0.1	Dry	USGS
Coyote	Coyote Creek @ Coyote Rd.	11171500	2/9/85	0.06	Dry	USGS
Coyote	Coyote Cr. (near Anderson Res.)	11169970	2/21/80	0.13	Dry	USGS
Coyote	Coyote Cr. (near Anderson Res.)	11169970	9/9/80	0.04	Dry	USGS
Coyote	Coyote Cr. (near Anderson Res.)	11169970	3/28/81	0.60	Dry	USGS
Coyote	Coyote Cr. (near Anderson Res.)	11169970	8/2/81	0.04	Dry	USGS
Coyote	Coyote Cr. (near Anderson Res.)	11169970	1/6/82	0.07	Dry	USGS
Coyote	Coyote Cr. (near Anderson Res.)	11169970	9/7/82	0.06	Dry	USGS
Coyote	Coyote Cr. (near Anderson Res.)	11169970	1/28/83	0.11	Dry	USGS
Coyote	Coyote Cr. (near Anderson Res.)	11169970	8/31/83	0.06	Dry	USGS
Coyote	Coyote Cr. (near Anderson Res.)	11169970	8/23/84	0.65	Dry	USGS
Coyote	Coyote Cr. (near Anderson Res.)	11169970	2/9/85	0.07	Dry	USGS
Coyote	Coyote Cr. (near Anderson Res.)	11169970	9/12/85	0.08	Dry	USGS
Calabazas	Calabazas Creek (B1 at 0.5 ft depth)	B1 - B6	11/4/91	0.094	Dry	TSI
Calabazas	Calabazas Creek (B2 at 0.5 ft depth)	B1 - B6	11/4/91	0.023	Dry	TSI
Calabazas	Calabazas Creek (B3 at 0.5 ft depth)	B1 - B6	11/4/91	0.076	Dry	TSI

Table 5. Stream Sediment Data for Mercury in Santa Clara County

Watershed (Subwatershed)	Location	WCC Map ID & Station ID	Date Collected	Mercury Conc. (mg/kg)	Dry/Wet Wt.	Source
Calabazas	Calabazas Creek (B5 at 0.5 ft depth)	B1 - B6	11/8/91	0.012	Dry	TSI
Calabazas	Calabazas Creek (B6 at 0.5 ft depth)	B1 - B6	11/8/91	0.043	Dry	TSI
Calabazas	Calabazas Creek Near Wilcox School	S-1	3/30/88	0.1	Dry	WCC
Calabazas	Calabazas Creek Near Wilcox School	S-1	5/11/88	0.05	Dry	WCC
Calabazas	Calabazas Creek Near Wilcox School	S-1	8/22/88	<0.02	Dry	WCC
Calabazas	Calabazas Creek Near Wilcox School	S-1	12/12/88	0.38	Dry	WCC
Sunnyvale E. Channel	Sunnyvale E. Channel @ Ahwanee Street	S-2	3/30/88	0.2	Dry	WCC
Sunnyvale E. Channel	Sunnyvale E. Channel @ Ahwanee Street	S-2	5/11/88	0.14	Dry	WCC
Sunnyvale E. Channel	Sunnyvale E. Channel @ Ahwanee Street	S-2	8/22/88	<0.02	Dry	WCC
Sunnyvale E. Channel	Sunnyvale E. Channel @ Ahwanee Street	S-2	12/12/88	0.15	Dry	WCC

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Table 6. South Bay Sediment Mercury Concentrations

Sample ID.	Date Sampled			Sample Type	Sampling Event No.	Sample Replicate	Mercury - Dry Wt mg/kg
	Month	Day	Year				
SB-6	9	8	1989	SURFACE	1	1	0.18
SB-6	9	8	1989	SURFACE	1	2	0.44
SB-6	9	8	1989	SURFACE	1	3	0.43
SB-6	9	28	1989	SURFACE	2	1	0.51
SB-6 (FD)	9	28	1989	SURFACE	2	2	0.43
SB-6 (FD)	9	28	1989	SURFACE	2	3	0.47
SB-6 (FD)	9	28	1989	SURFACE	2	4	0.51
SB-6	10	25	1989	SURFACE	3	1	0.34
SB-6	10	25	1989	SURFACE	3	2	0.37
SB-6	10	25	1989	SURFACE	3	3	0.39
SB-6	1	9	1990	SURFACE	4	1	0.13
SB-6	1	9	1990	SURFACE	4	2	0.13
SB-6	1	9	1990	SURFACE	4	3	0.12
SB-6	2	7	1990	SURFACE	5	1	0.25
SB-6	2	7	1990	SURFACE	5	2	0.21
SB-6	2	7	1990	SURFACE	5	3	0.25
SB-6	3	7	1990	SURFACE	6	1	0.27
SB-6	3	7	1990	SURFACE	6	2	0.30
SB-6	3	7	1990	SURFACE	6	3	0.32
SB-6	7	8	1990	SURFACE	7	1	0.17
SB-6	7	8	1990	SURFACE	7	2	0.16
SB-6	7	8	1990	SURFACE	7	3	0.19
SB-6	8	8	1990	SURFACE	8	1	0.45
SB-6	8	8	1990	SURFACE	8	2	0.48
SB-6	8	8	1990	SURFACE	8	3	0.42
SB-6	9	18	1990	SURFACE	9	1	0.37
SB-6	9	18	1990	SURFACE	9	2	0.34
SB-6	9	18	1990	SURFACE	9	3	0.37
SB-6	12	13	1990	SURFACE	10	1	0.24
SB-6	12	13	1990	SURFACE	10	2	0.24
SB-6	12	13	1990	SURFACE	10	3	0.25
SB-6	1	10	1990	SURFACE	11	1	0.41
SB-6	1	10	1990	SURFACE	11	2	0.33
SB-6	1	10	1990	SURFACE	11	3	0.28
SB-6	12	11	1990	SURFACE	12	1	0.20
SB-6	12	11	1990	SURFACE	12	2	0.24
SB-6	12	11	1990	SURFACE	12	3	0.21

Sample ID.	Date Sampled			Sample Type	Sampling Event No.	Sample Replicate	Mercury - Dry Wt mg/kg
	- Month	- Day	- Year				
SB-7	9	8	1989	SURFACE	1	1	0.38
SB-7	9	8	1989	SURFACE	1	2	0.39
SB-7	9	8	1989	SURFACE	1	3	0.46
SB-7	9	28	1989	SURFACE	2	1	0.41
SB-7	9	28	1989	SURFACE	2	2	0.44
SB-7	9	28	1989	SURFACE	2	3	0.42
SB-7	10	25	1989	SURFACE	3	1	0.38
SB-7	10	25	1989	SURFACE	3	2	0.37
SB-7	10	25	1989	SURFACE	3	3	0.37
SB-7	1	9	1990	SURFACE	4	1	0.24
SB-7	1	9	1990	SURFACE	4	2	0.23
SB-7	1	9	1990	SURFACE	4	3	0.23
SB-7	2	7	1990	SURFACE	5	1	0.24
SB-7	2	7	1990	SURFACE	5	2	0.29
SB-7	2	7	1990	SURFACE	5	3	0.28
SB-7	3	7	1990	SURFACE	6	1	0.35
SB-7	3	7	1990	SURFACE	6	2	0.37
SB-7	3	7	1990	SURFACE	6	3	0.36
SB-7	7	8	1990	SURFACE	7	1	0.19
SB-7	7	8	1990	SURFACE	7	2	0.19
SB-7	7	8	1990	SURFACE	7	3	0.17
SB-7	8	8	1990	SURFACE	8	1	0.39
SB-7	8	8	1990	SURFACE	8	2	0.42
SB-7	8	8	1990	SURFACE	8	3	0.39
SB-7	9	18	1990	SURFACE	9	1	0.36
SB-7	9	18	1990	SURFACE	9	2	0.37
SB-7	9	18	1990	SURFACE	9	3	0.39
SB-7	12	13	1990	SURFACE	10	1	0.27
SB-7	12	13	1990	SURFACE	10	2	0.26
SB-7	12	13	1990	SURFACE	10	3	0.28
SB-7	1	10	1990	SURFACE	11	1	0.39
SB-7	1	10	1990	SURFACE	11	2	0.36
SB-7	1	10	1990	SURFACE	11	3	0.35
SB-7	12	11	1990	SURFACE	12	1	0.26
SB-7	12	11	1990	SURFACE	12	2	0.26
SB-7	12	11	1990	SURFACE	12	3	0.28

(FD) = Field Duplicate

Source: Kinnetic Laboratories, Inc. (KLI). Electronic data obtained by in 1991 from KLI (see references).

4.0
SOURCE EVALUATION

Historical and current sources of mercury to reservoirs and streams in Santa Clara County tributaries to the South Bay are evaluated in this section based on available sediment and fish tissue data. At the RWQCB's request, the emphasis of this source identification was placed on identifying the potential contribution of mercury derived from abandoned mines in the Santa Clara Valley. Identification of additional current sources due to industrial and consumer activities and product usage is being conducted by the SCVNPS Program as part of their ongoing Source Control Program. These sources are scheduled to be reported in a technical memorandum due to the RWQCB on September 1, 1992.

4.1 HISTORICAL SOURCES

Elevated levels of mercury in sediment and fish tissue collected and analyzed in 1970-71 indicate a historical source of mercury in upland areas of the Almaden and Guadalupe subwatershed. In contrast, Sunnyvale East and Calabazas (two watersheds which do not contain historical mercury mining sites) contained significantly lower concentrations of mercury. These observations suggest the inactive mercury mining sites in the Almaden and Guadalupe subwatershed areas are a historical source of mercury to the Guadalupe watershed.

4.2 CURRENT SOURCES

Recent data also indicate elevated levels of mercury are present in sediments and fish tissue in the Guadalupe watershed as compared to the other watersheds that have been examined. In addition, slightly elevated levels of mercury are found in Calero Reservoir sediments. Elevated mercury concentrations in the Guadalupe and Almaden reservoirs sediment and subwatershed likely originate from abandoned mine sites as both reservoirs and subwatershed are downstream from the sites. Calero Reservoir is not directly downstream from any known mercury mining sites (Figure 1). However, current water management practices of the SCVWD include transfer of water from Almaden Reservoir to Calero to increase water conservation. This practice potentially contributes to the elevated concentrations observed in Calero Reservoir sediment.

In addition to contributing mercury to reservoirs, mining tailings located below reservoirs contribute mercury directly to streams. Therefore, reservoir releases are not necessarily the major source of mercury to downstream sediments.

Sediment mercury concentrations in the downstream station on the Guadalupe River (Station S-3 and 11169000) are elevated relative to sediments in the South Bay. These data suggest the Guadalupe River currently serves as a mechanism of transport between the mining sites and the South Bay. Despite the existence of former mercury mining sites in Coyote watershed, sediment mercury concentrations in the downstream station on Coyote River (Station S-4) were similar to those in the South Bay. The data therefore suggest that the mercury mine sites in the Coyote watershed contributes less mercury to the South Bay than those in the Guadalupe watershed.

To assess the potential contribution of atmospheric sources, industrial emissions data reported to the Bay Area Air Quality Management District were reviewed. In the Bay Area, seven industries reported mercury emissions greater than 10 lbs/year. None of the seven industries were located in the South Bay Area. Additionally, emissions data could not be used to determine how much mercury will accumulate in the streams and reservoirs in the South Bay as no depositional or runoff modeling was presented. Based on this data set, no conclusion could be made as to the relative contribution of atmospheric deposition to mercury loadings to the South Bay.

5.0
DATA GAPS AND RECOMMENDATIONS

Listed below are data gaps and recommendations to further define sources and reduce the discharge of mercury from Santa Clara County streams to the Bay.

5.1 SCVNPS PROGRAM

5.1.1 Loads Assessment

The majority of studies of mercury in stream waters were conducted using EPA analytical methods which do not have adequate sensitivity to measure mercury in surface waters. As a result, few measurements of mercury in stream waters were obtained and no reliable loads assessment could be performed using existing data. Additional sampling and analysis using improved analytical methods would be necessary to define the contribution of mercury to the Bay from streams in the Santa Clara Valley.

As part of the Amendments to the Monitoring Program, the SCVNPS program will conduct one round of sampling at the existing stream stations for analysis of total and dissolved mercury using more sensitive improved analytical methods appropriate for low-level mercury measurements. The results of this pilot program will be evaluated and, if the improved analytical method proves satisfactory, a sampling program to further define mercury loads to the Bay will be outlined and costs estimated.

5.1.2 Evaluation of Other Sources of Mercury

Existing studies conducted in the Santa Clara Valley have focused on the sources of mercury in areas of mercury enrichment including in and around inactive mining sites. Review of these and other data has indicated streams draining the mercury rich areas contain elevated concentrations of mercury in the sediments and biota as compared to streams in other watersheds of the Valley. However, at present no extensive analysis has been performed to determine if other sources (i.e., industrial, landfills, atmospheric) may contribute to loads of mercury to the South Bay.

To determine the contribution of metals from different potential sources, the SCVNPS Program is conducting a review of the use of metals by consumers and industries as a part of the Source Control Program. Included in the study is an assessment of the potential for metal inputs to storm drains from the different uses. While not emphasized in the original study plan, mercury is one of the subject metals. A technical report describing the results of the review and recommendations for focused work on mercury will be submitted to the RWQCB on September 1, 1992.

5.2 SANTA CLARA COUNTY AND OTHER PERSONS

Control of mercury within the largest mining area (New Almaden County Park) is currently the focus of a Department of Health Services (DHS) directed RI/FS program. This program is currently in the fourth phase of a five-phase program which involves assessing feasibility and designing a remedial action plan. In addition to the DHS directed studies, to reduce the source of mercury from inactive mining sites under the agencies or persons jurisdiction, we recommend they obtain and comply with the discharge permit as provided for under the Industrial Storm Water NPDES permitting system.

In addition, to minimize the input of mercury associated with erosion of surface soils, it is recommended that developers in the County be required to apply for regulation under the State General Construction Permit, scheduled for adoption this summer and implementation on October 1, 1992. As part of compliance with permit requirements, developers will be required to comply with the Best Management Practices outlined in the Draft BMP manual entitled "Stormwater Management Controls for New Development in Santa Clara and Alameda County," which will be available by August 1, 1992.

5.3 SANTA CLARA VALLEY WATER DISTRICT

Elevated concentrations of mercury are found in sediments and fish tissues of Calero Reservoir. One source contributing to the elevated levels of mercury is the current SCVWD practice of transferring water from Almaden to Calero Reservoir. It is recommended the specifics of this water management policy be reviewed in order to minimize any future impacts.

Additionally, in the design, construction, and maintenance of flood control facilities, strategies should be developed for management of significant concentrations of mercury in sediments.

6.0
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APPENDIX A

STATE OF CALIFORNIA PETE WILSON, Governor

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION
2101 WEBSTER STREET, SUITE 500
OAKLAND, CA 94612

Phone: (510) 464-1255
FAX: (510) 464-1380

12/23 REJ
WLW

December 20, 1991
File No. 1538.08 (JRL)

Roger B. James, Chair
Santa Clara Valley Nonpoint Source Pollution Control Program
5750 Almaden Expressway
San Jose, CA 95118

Dear Mr. James:

During the Regional Board's recent hearings on proposed Basin Plan Amendments, the topic of potential threat to beneficial uses due to mercury concentrations in the South Bay received much attention. We plan two types of response to this issue; first, to evaluate the basis of EPA's criteria for mercury and propose a site specific objective for San Francisco Bay, and, simultaneously, to strengthen efforts to identify and reduce all sources of mercury to the South Bay. The purpose of this letter is to request, pursuant to Section 13267 of the California Water Code, that the Santa Clara Valley Nonpoint Source Pollution Control Program prepare a technical report identifying sources of mercury in its watershed.

The technical report shall include an assessment of all currently available data characterizing mercury concentrations in water and sediment within the study area of your Program. Based on this assessment and your knowledge of the watershed, please provide an evaluation of the current and historical sources of mercury in your discharge, including their relative importance in terms of loading. If available data are not adequate to address this point, please specify what additional data are needed. The report should also include recommendations as to how the discharge of mercury to South Bay and to lakes and streams tributary to South Bay can be reduced.

The report shall be completed and submitted to the Regional Board according to the following schedule:

Study Plan	February 1, 1992
Final Report	May 1, 1992

You should be aware that this is a formal request for a technical report pursuant to California Water Code Section 13267. Failure to respond or late response to this request may subject you to civil liability imposed by the Board to a maximum amount of $1,000 per day. Any extensions of the time deadlines set forth above must be confirmed by Board staff. If you have any questions regarding this request, please contact Jessica Lacy at (510) 464-0702.

Sincerely,

Steven R. Ritchie
Executive Officer

cc: Harry Seraydarian, Director
Water Management Division
U.S. Environmental Protection Agency
75 Hawthorne Street
San Francisco, CA 94105

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